

بسم الله الرحمن الرحيم ..

أعزائي / منسوبي وزوار هذا الصرح الشامخ باسمه وبأهله ..

أضع بين يديكم ..

مشروعي البسيط لمادة الجافا ..

اسم المشروع : (emp_system) ..

وهو برنامج بسيط لإدارة الموظفين ، (مهندسين - عمال) ..

وبه أربع كلاسات ..

الموظفين (Employee) . المهندسين (Engineer) . العمال (Worker) . الواجهة الرئيسية (EnterFace)
...

١- الموظفين (Employee) : وبه الخصائص العامة للموظفين ، والتي يتفق بها المهندسين والعمال ،
وهي :
الرقم (number) . الاسم (name) . الراتب (salary) . العمر (age) . الجنس (kind) (ذكر أو انثى) ..
وطرق (set & get) لكل خاصية ..

٢- المهندسين (Engineer) : ويرث كلاس الموظفين ، وله خصائص خاصة به وهي :
العموله (comm.) . حاله (status) . ممتاز - جيد - سيء ... إضافة إلى الطرق الخاصة بكل خاصية ..

٣- العمال (Worker) : ويرث كلاس الموظفين ، وله خصائص خاصة به وهي :
عدد ساعات العمل (numOfHour) . الدخل السنوي (annualIncome) .. والطرق الخاصة بها ..

Employee System

مرحباً بك في برنامج إدارة الموظفين

إشياء مفضولة
إضافة
حذف
بحث
تعديل
خروج

الرقم :

الاسم :

الراتب :

العمر :

الجنس : ☐ female ☒ male

الوظيفة : ☒ Worker ☐ Engineer

الدخل السنوي :

الساعات الإضافية :

حفظ
طباعة
السابق
التالي
كتابة على ملف
قراءة من ملف

عن الطالب

about of student

مشروع : JAVA3

تقديم : عبدالله رزقان المطيري

حقيق : عبدالله رزقان المطيري

الرقم : 113241358

إشراف المهندسين : محمد زعرور

إشراف المهندسين : محمد زعرور

"الموظفين"

Employee.java

Created with [JBuilder](#)

```
/* عبدالله رزقان المطيري
113241358 _ ٣٣٠٢ الشعبة */

package emp_system;
public class Employee {

private int number;
private String name;
private double salary;
private int age;
private boolean kind;

public Employee() {}

/*public Employee(int num) {
num=number;
}
public Employee(int num,String n,int ag,boolean k,double sal) {
number=num; name=n; age=ag; kind=k; salary=sal;}*/

public void setNumber(int num){number=num;}

public void setName(String n){name=n;}

public void setSal(double sal){salary=sal;}

public void setAge(int newAge){age=newAge;}

public void setKind(boolean k){kind=k;}

public int getNumber(){return number;}

public String getName(){ return name; }

public double getSal(){ return salary; }

public int getAge(){ return age; }

public boolean getKind(){ return kind; }

/*public void PrintData(){
System.out.println("THE NAME : "+name+"\nTHNUMBER : "+number
+"\nTHE SALARY : "+salary+"\nTHE AGE : "+age+"\nTHE KIND : "+kind);
}*/

}
```

Employee.java

Created with [JBuilder](#)

"الهندسين"

Engineer.java

Created with [JBuilder](#)

```
package emp_system;
import javax.swing.JOptionPane;
public class Engineer extends Employee {

    public Engineer() {}

    /*public Engineer(int no,String na,int age,boolean ki,double sal) {
        super(no,na, age,ki,sal);}*/

    private double comm;
    private int status;

    public void setComm(double com){
        if (com > 0) {
            comm = com;
            com *= getSal();
            com += getSal();
            setSal(com);
        }
        else comm = com;
    }

    public void setStatus(int st){status=st;}

    public double getComm(){return comm;}

    public int getStatus(){return status;}

    /*public void PrintData(){
        System.out.println(" =====THE ENGINEER IN COMPANY =====\n");
        super.PrintData();
        System.out.println("THE COMMISSION : "+comm+"\nTHE STATUS : "+status);
    }*/

}
```

Engineer.java

Created with [JBuilder](#)

"العمال"

Worker.java

Created with [JBuilder](#)

```
package emp_system;
public class Worker extends Employee {
    public Worker() {}

    /* public Worker(int no,String na,int age,boolean ki,double sal) {
        super(no,na, age,ki,sal);}*/

    private double numOfHour=0;
    private double annualIncome=0.0; /* يشير هذا المتغير الى الدخل السنوي لدى العامل
        *مثل أن يكون له بدل سكن و بدل نقل اضافه الى الساعاه الإضافيه */

    public void setAnnual(double ann){annualIncome+=ann;}

    public void setNumOfHour(double num){
        double n=num*20; setAnnual(n); numOfHour+=num;}
    // يتم هنا اضافه سعر الساعات الى الدخل السنوي

    public double getAnnual(){return annualIncome;}

    public double getNumOfHour(){return numOfHour;}

    /*public void PrintData(){
    System.out.println(" =====THE WORKER IN COMPANY =====\n");
    super.PrintData();
    System.out.println("THE ANNUAL INCOME : "+annualIncome+
        "\nTHE NUMBER OF HOUR : "+numOfHour);
    }*/

}
```

Worker.java

Created with [JBuilder](#)

"الواجهة الرئيسية"

EnterFace.java

Created with [JBuilder](#)

```
package emp_system;
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import java.io.*;

public class EnterFace extends JFrame {
    private Worker Workers[];
    private Engineer Engineers[];
    private String Full= "img/Full.gif",
    InputNumber="img/InputNumber.gif",
    CreateArray="img/CreateArray.gif",

    fileE="C:/fileE.txt",fileW="C:/fileW.txt",PDataE="C:/dataE.txt",PDataW="C:/DataW.txt";
    private BufferedReader readFile,readData;
    private PrintWriter Engineer_write,Worker_write,DataE,DataW;
    private int n=0,e,w,Eindex,Windex,indexCopy,countE=100,countW=200
    ,checkDelE=0,checkUpE=0,checkDelW=0,checkUpW=0;
    private Container container;
    private JLabel title, name, number, age, sal,
    kind, sort, comm, status, huor,annul;
    private JButton create, add, serch, update, del, print, save, next, back,
    exit,write,read,about;
    private JTextField tname, tnumber, tage, tsal, tcomm, thuor, tannul;
    private JRadioButton rkind1, rkind2, rsort1, rsort2;
    private ButtonGroup group1, group2;
    private JComboBox cstatus;
    private String statuses[] = {"ACCEPTED", "GOOD", "EXCELLENT"};
    private JPanel pname,pnumber, page, psal, phead, pkind, psort, pengineer,
    punder,
    pworker,pinformation;
    private GridBagLayout layout;
    private GridBagConstraints gbc1;

    public EnterFace() throws Exception, IOException{
        super("Employee System");
        readDataE();
        layout=new GridBagLayout();
        container = getContentPane();
        container.setLayout(layout);
        gbc1=new GridBagConstraints();
        title = new JLabel(new ImageIcon("img/title.gif"));
        name = new JLabel(new ImageIcon("img/nam.gif"));
        number = new JLabel(new ImageIcon("img/num.gif"));
        sal = new JLabel(new ImageIcon("img/sal.gif"));
        age = new JLabel(new ImageIcon("img/age.gif"));
        kind = new JLabel(new ImageIcon("img/kind.gif"));
        sort = new JLabel(new ImageIcon("img/sort.gif"));
        comm = new JLabel(new ImageIcon("img/comm.gif"));
        status = new JLabel(new ImageIcon("img/status.gif"));
        huor = new JLabel(new ImageIcon("img/hour.gif"));
        annul = new JLabel(new ImageIcon("img/anual.gif"));

        create = new JButton(new ImageIcon("img/create.gif"));
        add = new JButton(new ImageIcon("img/add.gif"));
        serch = new JButton(new ImageIcon("img/serch.gif"));
        update = new JButton(new ImageIcon("img/update.gif"));
        del = new JButton(new ImageIcon("img/del.gif"));
        print = new JButton(new ImageIcon("img/print.gif"));
        save = new JButton(new ImageIcon("img/save.gif"));
        back = new JButton(new ImageIcon("img/back.gif"));
```

```

next    = new JButton(new ImageIcon("img/next.gif"));
exit    = new JButton(new ImageIcon("img/exit.gif"));
write   = new JButton(new ImageIcon("img/write.gif"));
read    = new JButton(new ImageIcon("img/read.gif"));
about   = new JButton(new ImageIcon("img/about.gif"));

tname   = new JTextField(15);
tnumber = new JTextField(15);
tsal    = new JTextField(5);
tage    = new JTextField(2);
tcomm   = new JTextField(5);
cstatus = new JComboBox(statuses);
thuor   = new JTextField(3);
tannul  = new JTextField(5);

rkind1  = new JRadioButton("male", true);
rkind2  = new JRadioButton("female", false);
group1  = new ButtonGroup();
group1.add(rkind1);
group1.add(rkind2);

rsort1  = new JRadioButton("Engineer", true);
rsort2  = new JRadioButton("Worker", false);
group2  = new ButtonGroup();
group2.add(rsor1);
group2.add(rsor2);

pnumber = new JPanel(new BorderLayout());
phead   = new JPanel(new GridLayout(1, 6));
pkind   = new JPanel(new GridLayout(1, 3));
psort   = new JPanel(new GridLayout(1, 3));
pengineer = new JPanel(new GridLayout(1, 4));
punder   = new JPanel(new GridLayout(1, 6));
pworker  = new JPanel(new GridLayout(1, 4));
pname    = new JPanel(new BorderLayout());
page     = new JPanel(new BorderLayout());
psal     = new JPanel(new BorderLayout());
pinformation= new JPanel(new GridLayout(4,1));

Engineer_write=new PrintWriter(new BufferedWriter(new
FileWriter(fileE)));
Worker_write=new PrintWriter(new BufferedWriter(new FileWriter(filew)));
DataE=new PrintWriter(new BufferedWriter(new FileWriter(PDataE)));
DataW=new PrintWriter(new BufferedWriter(new FileWriter(PDataW)));

pnumber.add(number, BorderLayout.EAST );
pnumber.add(tnumber, BorderLayout.CENTER);
pname.add(name, BorderLayout.EAST );
pname.add(tname, BorderLayout.CENTER);
page.add(sal, BorderLayout.EAST );
page.add(tsal, BorderLayout.CENTER);
psal.add(age, BorderLayout.EAST );
psal.add(tage, BorderLayout.CENTER);

pinformation.add(pnumber);pinformation.add(pname);pinformation.add(page);
pinformation.add(psal);

phead.add(exit);
phead.add(update);
phead.add(serch);
phead.add(del);
phead.add(add);
phead.add(create);

pkind.add(rkind2);
pkind.add(rkind1);
pkind.add(kind);

psort.add(rsor2);

```

```

psort.add(rsor1);
psort.add(sort);

pengineer.add(cstatus);
pengineer.add(status);
pengineer.add(tcomm);
pengineer.add(comm);

pworker.add(huor);
pworker.add(thuor);
pworker.add(annul);
pworker.add(tannul);

punder.add(read);
punder.add(write);
punder.add(next);
punder.add(back);
punder.add(print);
punder.add(save);

gbc1.gridx=0;   gbc1.gridy=0;
layout.setConstraints(title,gbc1);
container.add(title);

gbc1.gridx=0;   gbc1.gridy=1;
gbc1.insets=new Insets(10,0,12,0);
layout.setConstraints(phead,gbc1);
container.add(phead);

gbc1.gridx=0;   gbc1.gridy=2;
gbc1.anchor=GridBagConstraints.EAST ;
gbc1.insets=new Insets(10,0,10,0);
layout.setConstraints(pinformation,gbc1);
container.add(pinformation);

gbc1.gridx=0;   gbc1.gridy=3;
gbc1.anchor=GridBagConstraints.CENTER ;
gbc1.insets=new Insets(1,0,1,0);
layout.setConstraints(pkind,gbc1);
container.add(pkind);

gbc1.gridx=0;   gbc1.gridy=4;
layout.setConstraints(psort,gbc1);
gbc1.insets=new Insets(10,0,15,0);
container.add(psort);

gbc1.gridx=0;   gbc1.gridy=5;
layout.setConstraints(pengineer,gbc1);
container.add(pengineer);

gbc1.gridx=0;   gbc1.gridy=5;
layout.setConstraints(pworker,gbc1);
container.add(pworker);

gbc1.gridx=0;   gbc1.gridy=6;
gbc1.insets=new Insets(2,0,2,0);
layout.setConstraints(punder,gbc1);
container.add(punder);

gbc1.gridx=0;   gbc1.gridy=7;
layout.setConstraints(about,gbc1);
container.add(about);

```

```
//=====
```

```

EHandler hand = new EHandler();
create.addActionListener(hand);
add.addActionListener(hand);
serch.addActionListener(hand);

```

```

        update.addActionListener(hand);
        del.addActionListener(hand);
        save.addActionListener(hand);
        print.addActionListener(hand);
        back.addActionListener(hand);
        next.addActionListener(hand);
        exit.addActionListener(hand);
        rsort1.addItemListener(hand);
        rsort2.addItemListener(hand);
        rkind1.addItemListener(hand);
        rkind2.addItemListener(hand);
        read.addActionListener(hand);
        write.addActionListener(hand);
        about.addActionListener(hand);

        setSize(620, 455);
        setVisible(true);
        setResizable(false);
        pworker.setVisible(false);
        back.setEnabled(false);
        save.setEnabled(false);
        textEnabel(false);
    }

    //=====Methods=====
    //=====clear=====
    public void clear(int count){
        tnumber.setText(""+count);
        tname.setText("");
        tage.setText("0");
        tsal.setText("0.0");
        tcomm.setText("0.0");
        tannul.setText("0.0");
        thuor.setText("0.0");
        cstatus.setSelectedIndex(0);
    }

    //=====setDataE=====
    public void setDataE(int m) {try{
        if(m==1){back.setEnabled(true);}
        Engineers[m].setNumber(Integer.parseInt(tnumber.getText()));
        Engineers[m].setName(tname.getText());
        Engineers[m].setAge(Integer.parseInt(tage.getText()));
        Engineers[m].setSal(Double.parseDouble(tsal.getText()));
        Engineers[m].setComm(Double.parseDouble(tcomm.getText()));
        Engineers[m].setStatus(cstatus.getSelectedIndex());
    }
    catch(NumberFormatException e){Message( InputNumber);}
    }

    //=====setDataW=====
    public void setDataW(int m) {try{
        if(m==1){back.setEnabled(true);}
        Workers[m].setNumber(Integer.parseInt(tnumber.getText()));
        Workers[m].setName(tname.getText());
        Workers[m].setAge(Integer.parseInt( tage.getText()));
        Workers[m].setSal(Double.parseDouble(tsal.getText()));
        Workers[m].setAnnual(Double.parseDouble(tannul.getText()));
        Workers[m].setNumOfHour(Double.parseDouble(thuor.getText()));
    }
    catch(NumberFormatException e){Message( InputNumber);}
    }

    //=====getDataE=====
    public void getDataE(int i){
        tname.setText(Engineers[i].getName());
        tnumber.setText(Engineers[i].getNumber() + "");
        tage.setText(Engineers[i].getAge() + "");
        tsal.setText(Engineers[i].getSal() + "");
        tcomm.setText(Engineers[i].getComm() + "");
        cstatus.setSelectedIndex(Engineers[i].getStatus());
    }

```

```

    }
    //=====getDataW=====
    public void getDataW(int i){
        tname.setText(Workers[i].getName());
        tnumber.setText(Workers[i].getNumber() + "");
        tage.setText(Workers[i].getAge() + "");
        tsal.setText(Workers[i].getSal() + "");
        tannul.setText(Workers[i].getAnnual() + "");
        thuor.setText(Workers[i].getNumOfHour() + "");
    }
    //=====serchE=====
    public void serchE(){
        int i,num = Integer.parseInt(JOptionPane.showInputDialog(new
        ImageIcon("img/InputEn.gif")));
        for (i = 0; i < e; i++) {
            if (Engineers[i].getNumber() == num) {
                Eindex = i;
                if(indexCopy==1){
                    Engineers[i] = null;
                    checkDelE=1;
                    arrangementE(i+1);
                    indexCopy=0;}
                else
                    getDataE(i);
                break;}
        }
        if (i==e) {
            JOptionPane.showMessageDialog(null, new
            ImageIcon("img/noFoundE.gif"));
        }
    }
    //=====serchW=====
    public void serchW(){
        int i,num = Integer.parseInt(JOptionPane.showInputDialog(new
        ImageIcon("img/InputWn.gif")));
        for (i = 0; i < w; i++) {
            if (Workers[i].getNumber() == num) {
                Windex=i;
                if(indexCopy==1){
                    Workers[i]=null;
                    arrangementW(i+1);
                    indexCopy=0;
                }
                else
                    getDataW(i);
                break;
            }
        }
        if (i == w) {
            JOptionPane.showMessageDialog(null, new
            ImageIcon("img/noFoundW.gif"));
            clear(0);
        }
    }
    //=====arrangementE=====
    public void arrangementE(int i){//arrangement data in Engineers array
        for(i=i;i<e;i++){
            if(Engineers[i]!=null){
                Engineers[i-1]=Engineers[i];
                Engineers[i]=null;
                Eindex=i;
            }
            else
                break;
        }
    }
    //=====arrangementW=====
    public void arrangementW(int i){//arrangement data in Workers array
        for(i=i;i<w;i++){
            if(Workers[i]!=null){

```

```

        Workers[i-1]=Workers[i];
        Workers[i]=null;
        Windex=i;
    }
    else
        break;
}
}
//=====saveE=====
public void saveE(){
    if (Eindex < e){
        if(checkDelE==0){
            setDataE(Eindex);
            Eindex = e;}
        else if(checkDelE==1){
            if(checkUpE==1){
                if(Engineers[Eindex]==null){
                    getIndexNullE();
                }
                else{setDataE(Eindex);checkUpE=0;}
            }
            else if(checkUpE==0){
                getIndexNullE();
            }
        }
    }
    else if (e < Engineers.length) {
        if(e>=Eindex){
            Engineers[e] = new Engineer();
            setDataE(e);
            e++;
            Eindex = e;
        }
        else{
            getIndexNullE();
        }
    }
}
else
    Message(Full);
}
//=====saveW=====
public void savew(){
    if (Windex < w){
        if(checkDelW==0){
            setDataW(Windex);
            Windex = w;}
        else if(checkDelW==1){
            if(checkUpW==1){
                if(Workers[Windex]==null){
                    getIndexNullW();
                }
                else{setDataW(Windex);checkUpW=0;}
            }
            else if(checkUpW==0){
                getIndexNullW();
            }
        }
    }
    else if (w < Workers.length) {
        if(w>=Windex){
            Workers[w] = new Worker();
            setDataW(w);
            w++;
        }
    }
}

```

```

        Windex = w;
    }
    else{
getIndexNullW();
    }
}
else
    Message(Full);
}
//=====getIndexNullE=====
public void getIndexNullE(){
    for(int i=0;i<Engineers.length;i++){
if(Engineers[i]==null){
    Engineers[i]=new Engineer();
    setDataE(i);
    e++;
    Eindex = e;
    break;
}
if(i==Engineers.length){
    Message(Full);
}
}
}
//=====getIndexNullW=====
public void getIndexNullW(){
    for(int i=0;i<Workers.length;i++){
if(Workers[i]==null){
    Workers[i]=new Worker();
    setDataW(i);
    w++;
    Windex = w;
    break;
}
if(i==Workers.length){
    Message(Full);
}
}
}
//=====textEnabel=====
public void textEnabel(boolean b){
    tname.setEnabled(b);
    tnumber.setEnabled(b);
    tage.setEnabled(b);
    tsal.setEnabled(b);
    tcomm.setEnabled(b);
    thuor.setEnabled(b);
    tannul.setEnabled(b);
    cstatus.setEnabled(b);
    rkind1.setEnabled(b);
    rkind2.setEnabled(b);
}
//=====Message=====
public void Message(String m){
    JOptionPane.showMessageDialog(null,new ImageIcon(m));
    clear(0);
    textEnabel(false);
    save.setEnabled(false);
}
//=====writeOnFileE=====
public void writeOnFileE(){
    for(int i=0;i<e;i++){
        Engineer_write.println(Engineers[i].getNumber() );
        Engineer_write.println(Engineers[i].getName());
        Engineer_write.println(Engineers[i].getSal() );
        Engineer_write.println(Engineers[i].getAge() );
        Engineer_write.println(Engineers[i].getComm() );
        Engineer_write.println(cstatus.getItemAt(Engineers[i].getStatus()));
    }
}

```

```

    }
}

public void readDataE(){try{
    readData = new BufferedReader(new FileReader(PDataE));
    //Engineers=new Engineer[readData.read()];
    int length=readData.read();readData.readLine();
    e=readData.read();readData.readLine();
    Eindex=readData.read();readData.readLine();
    countE=readData.read();readData.readLine();

    readData.close();
    System.out.print(length+" "+e+" "+Eindex+" "+countE);
    //readDataInEngineer();
}
catch(IOException e){}
catch(NumberFormatException e){}
catch(NullPointerException e){}
}

public void readDataW(){}

public void readDataInEngineer(){try{
    Engineer_write.close();
    readFile = new BufferedReader(new FileReader(fileE));
    int c=0;
    while(c<e){
        Engineers[c]=new Engineer();
        Engineers[c].setNumber(Integer.parseInt(readFile.readLine()));
        Engineers[c].setName(readFile.readLine());
        Engineers[c].setSal(Double.parseDouble(readFile.readLine()));
        Engineers[c].setAge(Integer.parseInt(readFile.readLine()));
        Engineers[c].setComm(Double.parseDouble(readFile.readLine()));
        /*for (int i = 0; i < statuses.length; i++) {
            if (readFile.readLine().equals(statuses[i])) {
                Engineers[c].setStatus(i);
            }
        }*/
        readFile.readLine();
        c++;
    }
    readFile.close();
}
catch(IOException e){}
}

public void readDataInWorker(){/*try{
    Worker_write.close();
    readFile = new BufferedReader(new FileReader(fileW));
    int c=0;
    while(c<w){
        Workers[c]=new Worker();
        Workers[c].setNumber(Integer.parseInt(readFile.readLine()));
        Workers[c].setName(readFile.readLine());
        Workers[c].setSal(Double.parseDouble(readFile.readLine()));
        Workers[c].setAge(Integer.parseInt(readFile.readLine()));
        Workers[c].setAnnual(Double.parseDouble(readFile.readLine()));

Workers[c].setNumOfHour(Double.parseDouble(readFile.readLine()));
        readFile.readLine();
        c++;
    }
    readFile.close();
}
catch(IOException e){}*/
}

//=====writeOnFileW=====
public void writeOnFileW(){

```

```

        /*for(int i=0;i<w;i++){
            Worker_write.println(Workers[i].getNumber() );
            Worker_write.println(Workers[i].getName());
            Worker_write.println(Workers[i].getSal() );
            Worker_write.println(Workers[i].getAge() );
            Worker_write.println(Workers[i].getAnnual() );
            Worker_write.println(Workers[i].getNumOfHour());
        }*/

    }

//=====writeDataEOnFile=====
    public void writeDataEOnFile(){
        DataE.write(Engineers.length);DataE.println() ;
        DataE.write(e);DataE.println() ;
        DataE.write(Eindex);DataE.println() ;
        DataE.write(countE);DataE.println() ;

        DataE.close();
    }

//=====writeDataWOnFile=====
    public void writeDataWOnFile(){
        /* DataW.print(Workers.length+" ");
        DataW.print(w+" ");
        DataW.print(Windex+" ");
        DataW.print(countW+" ");
        DataW.close();*/
    }

//=====End Method=====

//=====Handler=====
    private class EHandller implements ActionListener, ItemListener
    {
//=====ActionListener=====
        public void actionPerformed(ActionEvent event)
        {

//===== create =====
            if (event.getSource() == create) {try{

                back.setEnabled(false);
                textEnabel(false);
                if (n == 0) {
                    int E = Integer.parseInt(JOptionPane.showInputDialog(new
ImageIcon("img/ShowInputE.gif")));
                    Engineers = new Engineer[E];
                    e=0;
                    countE=100;
                    for(int i=0;i<E;i++){
                        Engineers[i] = new Engineer();}
                }
                else if (n == 1) {
                    int W= Integer.parseInt(JOptionPane.showInputDialog(new
ImageIcon("img/ShowInputW.gif")));
                    Workers = new Worker[W];
                    w=0;
                    countW=200;
                    for(int i=0;i<W;i++){
                        Workers[i] = new Worker();}
                }
            }
            catch(NumberFormatException a){Message(InputNumber);}
            catch(NegativeArraySizeException a){Message(InputNumber);}
            clear(0);
        }

//===== add =====

        else if (event.getSource() == add) { try{

```

```

        textEnabel(true);
        save.setEnabled(true);
        if (n == 0) {
            if (e == Engineers.length)
                Message(Full);
            else clear(countE++);}

            else if (n == 1) {
                if (w == Workers.length)
                    Message(Full);
                else clear(countW++);}
        }
        catch (NullPointerException a){Message(CreateArray);}
    }
    //===== serch =====
    else if (event.getSource() == serch) {try{
        if (n == 0) {
            serchE();
        }
        else if (n == 1) {
            serchW();
        }
    }
    catch (NumberFormatException e){Message(InputNumber);}
}
//===== update =====
else if (event.getSource() == update) {try{
    textEnabel(true);
    save.setEnabled(true);
    if(n==0){
        serchE();
        checkUpE=1;}
    else if(n==1){
        serchW();
        checkUpW=1;}
    }
    catch (NumberFormatException e){Message(InputNumber);}
}
//===== del =====
else if (event.getSource() == del) { try{
    if(n==0){
        indexCopy=1;
        serchE();
        if(indexCopy==0)
            e--;
    }
    else if(n==1){
        indexCopy=1;
        serchW();
        if(indexCopy==0)
            w--;
    }
    clear(0);
    }
    catch (NumberFormatException e){Message(InputNumber);}
}

//===== print =====
else if (event.getSource() == print) {try{
    if(n==0){serchE();}
    else if(n==1){serchW();}
    }
    catch (NumberFormatException e){Message(InputNumber);}
}

//===== save =====
else if (event.getSource() == save) { try{
    textEnabel(false);
    if (n == 0) {saveE();}

```

```

        else if (n == 1) {saveW();}
    }
    catch(NullPointerException a){Message (CreateArray);}
}

//===== next =====
else if (event.getSource() == next) {
    if (n == 0) {
        if(Eindex<e-1){
            getDataE(Eindex+1);
            Eindex++;
            back.setEnabled(true);}
        else {
            next.setEnabled(false);
            back.setEnabled(true);
        }
    }
    else if (n == 1) {

        if(Windex<w-1){
            getDataW(Windex+1);
            Windex++;
            back.setEnabled(true);}

        else{
            next.setEnabled(false);
            back.setEnabled(true);
        }
    }
}

//===== back =====
else if (event.getSource() == back) {
    if(n==0){

        if(Eindex>0){getDataE(Eindex-1);
            Eindex--;
            next.setEnabled(true);}

        else{
            back.setEnabled(false);
            next.setEnabled(true);
        }
    }
    else if(n==1){

        if(Windex>0){getDataW(Windex-1);
            Windex--;
            next.setEnabled(true);}
        else
            back.setEnabled(false);
            next.setEnabled(true);
    }
}

//===== write =====
else if (event.getSource() == write) {try{
    if (n == 0) {
        writeOnFileE();
    }
    else if (n == 1) {
        writeOnFileW();
    }
}
    catch(NullPointerException a){Message (CreateArray);}
}

//===== read =====
else if (event.getSource() == read) {
    if (n==0){

```

```

        writeDataEOnFile();
        //writeDataWOnFile();
    }
    else if (n==1){}
}

//===== about =====

    else if (event.getSource() == about) {
        JFrame window=new JFrame();
        window.setTitle("about of student");
        window.setBounds(200,100,327,288);
        window.setResizable(false);
        window.getContentPane().add(new JLabel(new
ImageIcon("img/window.gif")));
        window.setVisible(true);
    }
//===== exit =====
    else if (event.getSource() == exit) {
        Engineer_write.close();
        Worker_write.close();

        System.exit(0);
    }
}
//=====ItemListener=====
    public void itemStateChanged(ItemEvent event) {
        if (event.getSource() == rsort1) {
            pworker.setVisible(false);
            pengineer.setVisible(true);
            n = 0;
        }
        else if(event.getSource() == rsort2)
        {
            pengineer.setVisible(false);
            pworker.setVisible(true);
            n = 1;
        }
    }
}
//=====MainMethod=====
    public static void main(String args[]) throws Exception, IOException{
        EnterFace Enter = new EnterFace();
        Enter.setBounds(80,40,620, 455);
        Enter.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}

```

EnterFace.java

Created with [JBuilder](#)

أتمنى للجميع الفائدة وشكراً ..

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