# JD521 FA_2

Senzo Masango 4471

## Studentmarksreport

```
package studentmarksreport;
import javax.swing.JOptionPane;
/**
 *
 * @author UserTek
 */
public class Student {

    int studentNum;
    double testResult;
    double assignResult; // Assignment Result
    double examResult;

    public Student(){}
    public Student(int studentNum, double testResult, double assignResult,
double examResult){
        /*super(studentNum, testResult, assignResult, examResult);*/
        this.studentNum = studentNum;
        this.testResult = testResult;
        this.assignResult = assignResult;
        this.examResult = examResult;


    }
    public void getStudentNum(){
        //Exception handling to ensure integer is entered
        try{
            studentNum = Integer.parseInt(JOptionPane.showInputDialog("Enter
student number"));
        }catch(Exception e){
            JOptionPane.showMessageDialog(null, "Enter a valid number");
            getStudentNum();
        }
    }
    public void getTestResult(){
        //Exception handling to ensure double is entered
        try{
            testResult = Integer.parseInt(JOptionPane.showInputDialog("Enter
your test result"));
        }catch(Exception e){
            JOptionPane.showMessageDialog(null, "Enter a valid number");
            getTestResult();
        }
    }
    public void getAssignResult(){
        //Exception handling to ensure double is entered
        try{
            assignResult =
Integer.parseInt(JOptionPane.showInputDialog("Enter your assignment
result"));
        }catch(Exception e){
            JOptionPane.showMessageDialog(null, "Enter a valid number");
            getAssignResult();
```

```
        }
    }
    public void getExamResult(){
        //Exception handling to ensure double is entered
        try{
            examResult = Integer.parseInt(JOptionPane.showInputDialog("Enter
your exam result"));
        }catch(Exception e){
            JOptionPane.showMessageDialog(null, "Enter a valid number");
            getExamResult();
        }
    }
}
```

```
package studentmarksreport;

import javax.swing.JOptionPane;

/**
 *
 * @author UserTek
 */
public class Student_Report extends Student {


    public Student_Report(){}
    public Student_Report(int studentNum, double testResult, double
assignResult, double examResult) {
        super(studentNum, testResult, assignResult, examResult);
    }


    @Override
    public void getStudentNum(){
        //Exception handling to insure integer is entered
        try{
            studentNum = Integer.parseInt(JOptionPane.showInputDialog("Enter
student number"));
        }catch(Exception e){
            JOptionPane.showMessageDialog(null, "Enter a valid number");
            getStudentNum();
        }
    }
    @Override
    public void getTestResult(){
        //Exception handling to insure double is entered
        try{
            testResult = Integer.parseInt(JOptionPane.showInputDialog("Enter
your test result"));
        }catch(Exception e){
            JOptionPane.showMessageDialog(null, "Enter a valid number");
            getTestResult();
        }
    }
```

```
    @Override
    public void getAssignResult(){
        //Exception handling to insure double is entered
        try{
            assignResult =
Integer.parseInt(JOptionPane.showInputDialog("Enter your assignment
result"));
        }catch(Exception e){
            JOptionPane.showMessageDialog(null, "Enter a valid number");
            getAssignResult();
        }
    }
    @Override
    public void getExamResult(){
        //Exception handling to insure double is entered
        try{
            examResult= Integer.parseInt(JOptionPane.showInputDialog("Enter
your exam result"));
        }catch(Exception e){
            JOptionPane.showMessageDialog(null, "Enter a valid number");
            getExamResult();
        }
    }
    public void print_report(){
        double testWeighting = testResult * 0.25;
        double assignWeighting = assignResult * 0.25;
        double examWeighting = examResult * 0.5;
        double finalAssesment= testWeighting + assignWeighting  +
examWeighting ;
        JOptionPane.showMessageDialog(null, "Student Number: " + studentNum +
"\n" +
                                            "Test Result: " + testResult +
"(25%)" + "\n" +
                                            "Assignment Result: " +
assignResult + "(25%)" + "\n" +
                                            "Exam Result: " + examResult +
"(50%)" + "\n" +
                                            "Final Assessment :" +
finalAssesment + "%");
    }

}
```

```java
package studentmarksreport;

/**
 *
 * @author UserTek
 */
public class StudentMarksReport {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // TODO code application logic here
        Student_Report stuReport = new Student_Report();
        stuReport.getStudentNum();
        stuReport.getTestResult();
        stuReport.getAssignResult();
        stuReport.getExamResult();
        stuReport.print_report();
    }

}
```

***DragonKiller***

```
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package dragonkiller;
import java.util.Scanner;
import javax.swing.JOptionPane;
import java.util.Arrays;




public class DragonKiller  {
    String NameSurname;

    public void DragonKiller(String NameSurname){
      this.NameSurname = NameSurname;
    }

    public void Input_Name (){
        NameSurname = JOptionPane.showInputDialog("Enter Name and Surname");

    }
    public void RemoveSpace(){
        //Replaces the space between the name surname
        String withoutspace = NameSurname.replaceAll("\\s", " ");
        int count = 0;

        for (int i=0;i<withoutspace.length();i++){

            count++;

        }







    }




public static void main(String[] args) {
    DragonKiller DK = new DragonKiller();
    DK.Input_Name();  //calls the input
    DK.RemoveSpace(); //calls the spacing function


    int arr[] ={10,20,30,40,50}; //Loop through the array to find value using
binary search
```

```
    int key = 30;
    int result = Arrays.binarySearch(arr,key);
    if (result<0)
        System.out.println("Element is not found");
    else
        System.out.println("Element is found at Index:"+result);
```