

Name: Abhishek Kumar Gupta  
Class: K18FG  
Roll No.: A07  
Regd. No.: 11804985  
Subject: Java Programming  
Subject Code: CSE 310  
Evaluation 3 (Assignment)

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**Q1. Write a java program to implement "Student Management System". In which you have to include at least three from the given topics as required: Inheritance, Overriding Methods, Polymorphism, Abstract Classes, Nested Classes, Interfaces, Lambda Expressions, Exceptional Handling and I/O Fundamentals.**

**Solution:**

```
import java.util.*;    //for scanner class

import java.io.*;      //for bufferedReader class

class Details    //parent class
{
    int rno;
    String name;
    Details(int r, String n)    //Constructor of super class
    {
        rno=r;
        name=n;
    }
    void putDetails()    //Displaying basic details which will be overridden
    {
        System.out.println("\n*****The student details are:*****");
        System.out.println("\n\tRoll Number:"+rno);
        System.out.println("\n\tName:"+name);
    }
}

class PersonalInfo extends Details    //Personal information inherits from details
{
    String gender,phno,mail;
    PersonalInfo(int r, String n, String g, String ph, String m) //Constructor of subclass Personal
information
    {
        super(r,n);    //calling the super class constructor
        gender=g;
        phno=ph;
```

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```
        mail=m;
    }
    void putDetails()        //Displaying personal information by overriding the base class method
    {
        super.putDetails();    //Using parent class method to display basic details
        System.out.println("\n*****The personal information of the student:*****");
        System.out.println("\n\n\tGender:"+gender);
        System.out.println("\n\tPhone Number:"+phno);
        System.out.println("\n\tEmail Id:"+mail);
    }
}

class AcademicDetails extends Details    //Academic details inheriting from details
{
    String dept, grade;
    int sem;
    float m1, m2, m3, avg;
    AcademicDetails(int r, String n, String d,int s, float mrk1, float mrk2, float mrk3) //constructor
    {
        super(r,n);    //calling parent class constructor
        dept=d;
        sem=s;
        m1=mrk1;
        m2=mrk2;
        m3=mrk3;
    }
    void calc_grade()        //Calculating grade
    {
        avg=(m1+m2+m3)/3;
        if(avg>=90)
            grade="A";
    }
}
```

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```
        else if(avg>=75)
            grade="B";
        else if(avg>=60)
            grade="C";
        else if(avg>=40)
            grade="D";
        else
            grade="Fail";
```

```
    }
```

```
void putDetails()    //displaying academic details which overrides the base class method
```

```
{
```

```
    super.putDetails();
```

```
    System.out.println("\n\n*****The academic information of the student:*****");
```

```
    System.out.println("\n\n\tDepartment:"+dept);
```

```
    System.out.println("\n\tSemester:"+sem);
```

```
    System.out.println("\n\tMarks in three Subjects  
are:\n\t\t\t\t\t"+m1+"\n\t\t\t\t\t"+m2+"\n\t\t\t\t\t"+m3);
```

```
    System.out.println("\n\tAverage:"+avg);
```

```
    System.out.println("\n\tGrade:"+grade);
```

```
}
```

```
}
```

```
class RollnoException extends Exception    //User defined exception which raises if roll number is not  
found
```

```
{
```

```
    int rno;
```

```
    RollnoException(int r)
```

```
{
```

```
        rno=r;
```

```
}
```

```
    public String toString()
```

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```
        {  
            return("The entered roll number "+rno+" is not present");  
        }  
    }  
  
    class stud    //class with main method  
    {  
        public static void main(String args[]) throws IOException  
        {  
            int i,n,choice,rollno;  
            char cont='y';  
            Scanner sc= new Scanner(System.in);  
            System.out.println("\n\n\t\t\t*****WELCOME TO STUDENT MANAGEMENT  
SYSTEM*****");  
            System.out.println("-----");  
            BufferedReader br= new BufferedReader(new InputStreamReader(System.in));  
            System.out.println("\n**Enter the total number of students you want to have:**");  
            n=sc.nextInt();  
            PersonallInfo pi[]= new PersonallInfo[n];    //creating an array of objects of type  
PersonalInfo  
            AcademicDetails ad[]= new AcademicDetails[n];    //creating an array of objects of type  
AcademicDetails  
            for(i=0;i<n;i++) //Taking the details of n students  
            {  
                System.out.println("\n\n\t\tLets have entries of the details of the Student "+(i+1));  
                System.out.println("\n# Enter the Roll Number: #");  
                int rno=sc.nextInt();  
                System.out.println("\n# Enter the Name: #");  
                String name=br.readLine();  
                System.out.println("\n# Enter the Gender (Male/Female): #");  
                String gender=br.readLine();  
                System.out.println("\n# Enter the Phone Number: #");
```

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```
String phno=br.readLine();
System.out.println("\n# Enter the Email Id: #");
String mail=br.readLine();
System.out.println("\n# Enter the Department: #");
String dept=br.readLine();
System.out.println("\n# Enter the Semester: #");
int sem=sc.nextInt();
System.out.println("\n# Enter the marks obtained in THREE subjects: #");
float m1=sc.nextFloat();
float m2=sc.nextFloat();
float m3=sc.nextFloat();
pi[i]= new PersonalInfo(rno, name, gender, phno, mail);
ad[i]= new AcademicDetails(rno, name, gender, sem, m1, m2, m3);
    }
while(cont=='y' || cont=='Y')    //displaying required info
    {
        System.out.println("\n\n*****Enter your
choice:*****");
        System.out.println("\n# 1.Print PERSONAL INFORMATION of a student. #\n\n#
2.Print ACADEMIC DETAILS of a student #\n\n# 3.Exit #");
        choice=sc.nextInt();
        if(choice==1 || choice==2)
        {
            System.out.println("\n\n# Enter the Roll number of the student /( PLEASE
ENTER A VALID ONE /): # ");
            rollno=sc.nextInt();

            try
            {
                display(n,choice,rollno,pi,ad);
            }
            catch(RollnoException rne)
```

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```
        {  
            System.out.println("\n\n\t.....Exception Handled...."+rne);  
            System.out.print("\n**");  
        }  
    }  
    else if(choice==2)  
    {  
        System.out.println("\n\n# Enter the Roll number of the student /( PLEASE ENTER A  
VALID ONE /): #");  
        rollno=sc.nextInt();  
        try  
        {  
            display(n,choice,rollno,pi,ad);  
        }  
        catch(RollnoException rne)  
        {  
            System.out.println("\n\n\t.....Exception Handled...."+rne);  
        }  
    }  
    else if(choice==3)  
        break;  
    else  
        System.out.println("\n\n# Please enter a VALID choice #");  
        System.out.println("\n\n**Do you want to continue Y/N ??:**");  
        cont=sc.next().charAt(0);  
    }  
}
```

```
    public static void display(int n,int choice, int rollno, PersonalInfo pi[], AcademicDetails ad[] ) throws  
RollnoException    //Raising Exception  
{
```

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```
if(search_rno(rollno,n,pi))
    throw new RollnoException(rollno);
if(choice==1)
{
    for(int i=0;i<n;i++)
    {
        if(pi[i].rno==rollno)
            pi[i].putDetails();
    }
}
else if(choice==2)
{
    for(int i=0;i<n;i++)
    {
        if(ad[i].rno==rollno)
        {
            ad[i].calc_grade();
            ad[i].putDetails();
        }
    }
}
```

static boolean search\_rno(int r,int n, PersonalInfo pi[]) //Checks if the given roll number is present in the input array

```
{
    int count=0;
    for(int i=0;i<n;i++)
    {
        if(pi[i].rno==r)
        {
```

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```
        count++;
        break;
    }
}
if(count==0)
    return true;
else
    return false;
}
}
```



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### Console Screen:

```
C:\Users\abhis\OneDrive\Desktop\stud.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

stud.java x
1 import java.util.*; //for scanner class
2 import java.io.*; //for bufferedReader class
3 class Details //parent class
4 {
5     int rno;
6     String name;
7     Details(int r, String n) //Constructor of super class
8     {
9         rno=r;
10        name=n;
11    }
12    void putDetails() //Displaying basic details which will be overridden
13    {
14        System.out.println("\n*****The student details are:*****");
15        System.out.println("\n\n\tRoll Number:"+rno);
16        System.out.println("\n\tName:"+name);
17    }
18 }
19
20
21 class PersonalInfo extends Details //Personal information inherits from details
22 {
23     String gender,phno,mail;
24     PersonalInfo(int r, String n, String g, String ph, String m) //Constructor of subclass Personal information
25     {
26         super(r,n); //calling the super class constructor
27         gender=g;
28         phno=ph;
29         mail=m;
30     }
31     void putDetails() //Displaying personal information by overriding the base class method
32     {
33         super.putDetails(); //Using parent class method to display basic details
34         System.out.println("\n*****The personal information of the student:*****");
35         System.out.println("\n\n\tGender:"+gender);
36         System.out.println("\n\tPhone Number:"+phno);
37         System.out.println("\n\tEmail Id:"+mail);
38     }
39 }
40
41 class AcademicDetails extends Details //Academic details inheriting from details
42 {
43     String dept, grade;
44     int sem;
45     float m1, m2, m3, avg;
```

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```
stud.java x
44  int sem;
45  float m1, m2, m3, avg;
46  AcademicDetails(int r, String n, String d, int s, float mrk1, float mrk2, float mrk3) //constructor
47  {
48      super(r,n); //calling parent class constructor
49      dept=d;
50      sem=s;
51      m1=mrk1;
52      m2=mrk2;
53      m3=mrk3;
54  }
55  void calc_grade() //Calculating grade
56  {
57      avg=(m1+m2+m3)/3;
58      if(avg>=90)
59          grade="A";
60      else if(avg>=75)
61          grade="B";
62      else if(avg>=60)
63          grade="C";
64      else if(avg>=40)
65          grade="D";
66      else
67          grade="Fail";
68  }
69  void putDetails() //displaying academic details which overrides the base class method
70  {
71      super.putDetails();
72      System.out.println("\n\n*****The academic information of the student:*****");
73      System.out.println("\n\n\tDepartment:"+dept);
74      System.out.println("\n\tSemester:"+sem);
75      System.out.println("\n\tMarks in three Subjects are:\n\t\t\t\t"+m1+"\n\t\t\t\t"+m2+"\n\t\t\t\t"+m3);
76      System.out.println("\n\tAverage:"+avg);
77      System.out.println("\n\tGrade:"+grade);
78  }
79  }
80
81  class RollnoException extends Exception //User defined exception which raises if roll number is not found
82  {
83      int rno;
84      RollnoException(int r)
85      {
86          rno=r;
87      }
88      public String toString()
```

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```
stud.java x
88     public String toString()
89     {
90         return("The entered roll number "+rno+" is not present");
91     }
92 }
93
94 class stud //class with main method
95 {
96     public static void main(String args[]) throws IOException
97     {
98         int i,n,choice,rollno;
99         char cont='y';
100         Scanner sc= new Scanner(System.in);
101         System.out.println("\n\n\t\t\t****WELCOME TO STUDENT MANAGEMENT SYSTEM****");
102         System.out.println("-----");
103         BufferedReader br= new BufferedReader(new InputStreamReader(System.in));
104         System.out.println("\n**Enter the total number of students you want to have:**");
105         n=sc.nextInt();
106         PersonalInfo pi[]= new PersonalInfo[n]; //creating an array of objects of type PersonalInfo
107         AcademicDetails ad[]= new AcademicDetails[n]; //creating an array of objects of type AcademicDetails
108         for(i=0;i<n;i++) //Taking the details of n students
109         {
110             System.out.println("\n\n\tLets have entries of the details of the Student "+(i+1));
111             System.out.println("\n# Enter the Roll Number: #");
112             int rno=sc.nextInt();
113             System.out.println("\n# Enter the Name: #");
114             String name=br.readLine();
115             System.out.println("\n# Enter the Gender (Male/Female): #");
116             String gender=br.readLine();
117             System.out.println("\n# Enter the Phone Number: #");
118             String phno=br.readLine();
119             System.out.println("\n# Enter the Email Id: #");
120             String mail=br.readLine();
121             System.out.println("\n# Enter the Department: #");
122             String dept=br.readLine();
123             System.out.println("\n# Enter the Semester: #");
124             int sem=sc.nextInt();
125             System.out.println("\n# Enter the marks obtained in THREE subjects: #");
126             float m1=sc.nextFloat();
127             float m2=sc.nextFloat();
128             float m3=sc.nextFloat();
129             pi[i]= new PersonalInfo(rno, name, gender, phno, mail);
130             ad[i]= new AcademicDetails(rno, name, gender, sem, m1, m2, m3);
131         }
132     }
133 }
```

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```
stud.java
131 }
132
133 while(cont=='y' || cont=='Y') //displaying required info
134 {
135     System.out.println("\n\n*****Enter your choice:*****");
136     System.out.println("\n# 1.Print PERSONAL INFORMATION of a student. #\n\n# 2.Print ACADEMIC DETAILS of a student #\n\n# 3.Exit #");
137     choice=sc.nextInt();
138     if(choice==1 || choice==2)
139     {
140         System.out.println("\n\n# Enter the Roll number of the student /( PLEASE ENTER A VALID ONE /): # ");
141         rollno=sc.nextInt();
142         try
143         {
144             display(n,choice,rollno,pi,ad);
145         }
146         catch(RollnoException rne)
147         {
148             System.out.println("\n\n\t.....Exception Handled...."+rne);
149             System.out.print("\n**");
150         }
151     }
152     else if(choice==2)
153     {
154         System.out.println("\n\n# Enter the Roll number of the student /( PLEASE ENTER A VALID ONE /): #");
155         rollno=sc.nextInt();
156         try
157         {
158             display(n,choice,rollno,pi,ad);
159         }
160         catch(RollnoException rne)
161         {
162             System.out.println("\n\n\t.....Exception Handled...."+rne);
163         }
164     }
165     else if(choice==3)
166     break;
167     else
168     System.out.println("\n\n# Please enter a VALID choice #");
169     System.out.println("\n\n**Do you want to continue Y/N ??:**");
170     cont=sc.next().charAt(0);
171 }
172
173
174 public static void display(int n,int choice, int rollno, PersonalInfo pi[], AcademicDetails ad[] ) throws RollnoException //Raising Exception
175 {
```

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master (45)

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```
stud.java
174 public static void display(int n,int choice, int rollno, PersonalInfo pi[], AcademicDetails ad[] ) throws RollnoException //Raising Exception
175 {
176     if(search_rno(rollno,n,pi))
177         throw new RollnoException(rollno);
178     if(choice==1)
179     {
180         for(int i=0;i<n;i++)
181         {
182             if(pi[i].rno==rollno)
183                 pi[i].putDetails();
184         }
185     }
186     else if(choice==2)
187     {
188         for(int i=0;i<n;i++)
189         {
190             if(ad[i].rno==rollno)
191             {
192                 ad[i].calc_grade();
193                 ad[i].putDetails();
194             }
195         }
196     }
197 }
198
199 }
200 static boolean search_rno(int r,int n, PersonalInfo pi[]) //Checks if the given roll number is present in the input array
201 {
202     int count=0;
203     for(int i=0;i<n;i++)
204     {
205         if(pi[i].rno==r)
206         {
207             count++;
208             break;
209         }
210     }
211     if(count==0)
212         return true;
213     else
214         return false;
215 }
216 }
217
```

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master 48

Name: Abhishek Kumar Gupta  
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---

### Output Screens:

```
C:\Windows\system32\cmd.exe - java stud

C:\Users\abhis\OneDrive\Desktop>javac stud.java
C:\Users\abhis\OneDrive\Desktop>java stud

*****WELCOME TO STUDENT MANAGEMENT SYSTEM*****
-----

**Enter the total number of students you want to have:**
2

    Lets have entries of the details of the Student 1

# Enter the Roll Number: #
1

# Enter the Name: #
Abhishek Kumar Gupta

# Enter the Gender (Male/Female): #
Male

# Enter the Phone Number: #
9876543210

# Enter the Email Id: #
abc@xyz.com

# Enter the Department: #
cse

# Enter the Semester: #
3

# Enter the marks obtained in THREE subjects: #
65
65
76

    Lets have entries of the details of the Student 2

# Enter the Roll Number: #
```

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---

```
C:\Windows\system32\cmd.exe - java stud
# Enter the Semester: #
3

# Enter the marks obtained in THREE subjects: #
65
65
76

    Lets have entries of the details of the Student 2

# Enter the Roll Number: #
2

# Enter the Name: #
Rahul Singh

# Enter the Gender (Male/Female): #
Male

# Enter the Phone Number: #
8765432109

# Enter the Email Id: #
qwe@xyz.com

# Enter the Department: #
mech

# Enter the Semester: #
5

# Enter the marks obtained in THREE subjects: #
56
76
67

*****Enter your choice:*****

# 1.Print PERSONAL INFORMATION of a student. #
# 2.Print ACADEMIC DETAILS of a student #
# 3.Exit #
```

\*Entries of details

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---

```
C:\Windows\system32\cmd.exe - java stud
76
67

*****Enter your choice:*****

# 1.Print PERSONAL INFORMATION of a student. #
# 2.Print ACADEMIC DETAILS of a student #
# 3.Exit #
1

# Enter the Roll number of the student /( PLEASE ENTER A VALID ONE /): #
1

*****The student details are:*****

Roll Number:1
Name:Abhishek Kumar Gupta

*****The personal information of the student:*****

Gender:Male
Phone Number:9876543210
Email Id:abc@xyz.com

**Do you want to continue Y/N ??:**
y

*****Enter your choice:*****

# 1.Print PERSONAL INFORMATION of a student. #
# 2.Print ACADEMIC DETAILS of a student #
# 3.Exit #
```



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---

```
C:\Windows\system32\cmd.exe - java stud
**Do you want to continue Y/N ??:**
y

*****Enter your choice:*****

# 1.Print PERSONAL INFORMATION of a student. #
# 2.Print ACADEMIC DETAILS of a student #
# 3.Exit #
1

# Enter the Roll number of the student /( PLEASE ENTER A VALID ONE /): #
2

*****The student details are:*****

Roll Number:2
Name:Rahul Singh

*****The personal information of the student:*****

Gender:Male
Phone Number:8765432109
Email Id:qwe@xyz.com

**Do you want to continue Y/N ??:**
y

*****Enter your choice:*****

# 1.Print PERSONAL INFORMATION of a student. #
# 2.Print ACADEMIC DETAILS of a student #
# 3.Exit #
```

**\*Personal Information.**

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---

C:\Windows\system32\cmd.exe - java stud

```
*****Enter your choice:*****
# 1.Print PERSONAL INFORMATION of a student. #
# 2.Print ACADEMIC DETAILS of a student #
# 3.Exit #
2

# Enter the Roll number of the student /( PLEASE ENTER A VALID ONE /): #
1

*****The student details are:*****

Roll Number:1
Name:Abhishek Kumar Gupta

*****The academic information of the student:*****

Department:Male
Semester:3
Marks in three Subjects are:
                        65.0
                        65.0
                        76.0

Average:68.666664
Grade:C

**Do you want to continue Y/N ??:**
y

*****Enter your choice:*****
```

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---

```
C:\Windows\system32\cmd.exe - java stud
y
*****Enter your choice:*****
# 1.Print PERSONAL INFORMATION of a student. #
# 2.Print ACADEMIC DETAILS of a student #
# 3.Exit #
2
# Enter the Roll number of the student /( PLEASE ENTER A VALID ONE /): #
2
*****The student details are:*****

Roll Number:2
Name:Rahul Singh

*****The academic information of the student:*****

Department:Male
Semester:5
Marks in three Subjects are:
                        56.0
                        76.0
                        67.0

Average:66.333336
Grade:C

**Do you want to continue Y/N ??:**
```

**\*Academic Informations.**

Name: Abhishek Kumar Gupta  
Class: K18FG  
Roll No.: A07  
Regd. No.: 11804985  
Subject: Java Programming  
Subject Code: CSE 310  
Evaluation 3 (Assignment)

---

```
C:\Windows\system32\cmd.exe - java stud

*****Enter your choice:*****
# 1.Print PERSONAL INFORMATION of a student. #
# 2.Print ACADEMIC DETAILS of a student #
# 3.Exit #
6

# Please enter a VALID choice #

**Do you want to continue Y/N ??:**
y

*****Enter your choice:*****
# 1.Print PERSONAL INFORMATION of a student. #
# 2.Print ACADEMIC DETAILS of a student #
# 3.Exit #
1

# Enter the Roll number of the student /( PLEASE ENTER A VALID ONE /): #
5

.....Exception Handled....The entered roll number 5 is not present

**

**Do you want to continue Y/N ??:**
y

*****Enter your choice:*****
# 1.Print PERSONAL INFORMATION of a student. #
# 2.Print ACADEMIC DETAILS of a student #
```

**\*Exception handled.**