

Java Programming

Group Assignment-2

Team-8

Project: Course Registration System

Team Members:

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PROJECT TITLE:

Course Registration System

Overview:

- Every college needs a Course Registration System to apply and write exams of the courses which are provided by the management. In this project we have implemented a demo prototype of the course registration of Sethu Institute of Technology, Pulloor, Kariapatti.

Note:

- This project only contains few functionalities of many such as
 1. Student details
 2. Course addition
 3. Final submission
 4. Course Registration report generation.

Classes and Methods involved:

- 1) Class – **Profile**
 - a. Method – Constructor – *Profile*
 - b. Method – *showProfile*
- 2) Class – **Registration**
 - a. Method – Constructor – *Registration*
 - b. Method – *showCourses*
 - c. Method – *regMechanism*
 - d. Method – *getTotal*
 - e. Method – *showFinal*

Program:

```
import java.util.Scanner;

class Profile {
    String Name;
    String Rollnumber;

    public Profile(String Name, String Rollnumber) {
        this.Name = Name;
        this.Rollnumber = Rollnumber;
    }

    public void showProfile() {
        System.out.println("Name: " + this.Name);
        System.out.println("Roll number : " + this.Rollnumber+"\n");
    }
}

class Registration extends Profile {
    int[] Coursereg = new int[10];
    String[] Course1st = new String[]{"Algorithm Analysis",
    "Computer Networks", "Computer Networks Laboratory", "Gender
    Equality", "Java Programming (Integrated Course)"};
    String[] Regulation1st = new String[]{"2021", "2021", "2021",
    "2021", "2021"};
    String[] Coursecode1st = new String[]{"21UCS403", "21UCS402",
    "21UCS407", "21UGM431", "21UIT404"};

    public Registration(String Name, String Rollnumber) {
        super(Name, Rollnumber);
    }

    public void showCourses() {
        int n = Coursecode1st.length;
```

```

        System.out.println("Regulation \t Course Code \t Course Name
\t");
        for (int i = 0; i < n; i++) {
            System.out.println(this.Regulationlst[i] + "\t\t" +
this.Coursecode1st[i] + "\t\t" + this.Course1st[i]);
        }
    }
}

```

```

public void regMechanism(int i) {
    Scanner sc = new Scanner(System.in);
    int flag;
    System.out.println("Add " + this.Coursecode1st[i] + "\t" +
this.Course1st[i] + "?" + "(yes-1/no-0)");
    flag = sc.nextInt();
    if (flag == 1) {
        System.out.println("Added successfully");
        this.Coursereg[i] = 1;
    } else {
        this.Coursereg[i] = 0;
    }
}
}

```

```

public int getTotal() {
    return this.Course1st.length;
}

```

```

public void showFinal() {
    int n = Coursecode1st.length;
    System.out.println("Regulation \t Course Code \t Course Name
\t");
    for (int i = 0; i < n; i++) {
        if (this.Coursereg[i] == 1) {
            System.out.println(this.Regulationlst[i] + "\t\t" +

```

```

this.Coursecode1st[i] + "\t \t" + this.Course1st[i]);
    }
}

}
}

```

```

class Main {
    public static void main(String[] args) {
        String n, r;
        int k, conf, drive = 1;
        Scanner sc = new Scanner(System.in);
        System.out.println("Welcome to Course Registration");
        System.out.println("Please Enter your Following details");
        System.out.println("Name:");
        n = sc.nextLine();
        System.out.println("Rollnumber:");
        r = sc.nextLine();
        while (drive == 1) {
            Registration reg = new Registration(n, r);
            reg.showCourses();
            System.out.println("Select Courses \n");
            k = reg.getTotal();
            for (int i = 0; i < k; i++) {
                reg.regMechanism(i);
            }
            System.out.println("Courses for confirmation \n");
            reg.showProfile();
            reg.showFinal();
            System.out.println("Proceed to confirmation? (1=yes/0=no)");
            conf = sc.nextInt();
            if (conf == 1) {
                System.out.println("Registration is completed \n");
                drive = 0;
            }
        }
    }
}

```

```
    } else {  
        System.out.println("Try again later");  
        drive = 1;  
    }  
}  
  
}  
  
}
```

Output:

Testcase (1):

[one of the courses is not selected and registration is completed]

Welcome to Course Registration

Please Enter your Following details

Name:

M Mohammed Riyaz Khan

Rollnumber:

21CS031

Regulation	Course Code	Course Name
2021	21UCS403	Algorithm Analysis
2021	21UCS402	Computer Networks
2021	21UCS407	Computer Networks Laboratory
2021	21UGM431	Gender Equality
2021	21UIT404	Java Programming (Integrated Course)

Select Courses

Add 21UCS403 Algorithm Analysis?(yes-1/no-0)

1

Added successfully

Add 21UCS402 Computer Networks?(yes-1/no-0)

0

Add 21UCS407 Computer Networks Laboratory?(yes-1/no-0)

1

Added successfully

Add 21UGM431 Gender Equality?(yes-1/no-0)

1

Added successfully

Add 21UIT404 Java Programming (Integrated Course)?(yes-1/no-0)

1

Added successfully

Courses for confirmation

Name: M Mohammed Riyaz Khan

Roll number : 21CS031

Regulation	Course Code	Course Name
2021	21UCS403	Algorithm Analysis
2021	21UCS407	Computer Networks Laboratory
2021	21UGM431	Gender Equality
2021	21UIT404	Java Programming (Integrated Course)

Proceed to confirmation? (1=yes/0=no)

1

Registration is completed

Testcase (2):

[All courses are selected and registration is completed]

Welcome to Course Registration

Please Enter your Following details

Name:

M Mohammed Riyaz Khan

Rollnumber:

21CS031

Regulation	Course Code	Course Name
2021	21UCS403	Algorithm Analysis
2021	21UCS402	Computer Networks
2021	21UCS407	Computer Networks Laboratory
2021	21UGM431	Gender Equality
2021	21UIT404	Java Programming (Integrated Course)

Select Courses

Add 21UCS403 Algorithm Analysis?(yes-1/no-0)

1

Added successfully

Add 21UCS402 Computer Networks?(yes-1/no-0)

1

Added successfully

Add 21UCS407 Computer Networks Laboratory?(yes-1/no-0)

1

Added successfully

Add 21UGM431 Gender Equality?(yes-1/no-0)

1

Added successfully

Add 21UIT404 Java Programming (Integrated Course)?(yes-1/no-0)

1

Added successfully

Courses for confirmation

Name: M Mohammed Riyaz Khan

Roll number : 21CS031

Regulation	Course Code	Course Name
2021	21UCS403	Algorithm Analysis
2021	21UCS402	Computer Networks
2021	21UCS407	Computer Networks Laboratory
2021	21UGM431	Gender Equality
2021	21UIT404	Java Programming (Integrated Course)

Proceed to confirmation? (1=yes/0=no)

1

Registration is completed

Testcase (3):

[few courses are selected and registration is not completed and tried again to complete the registration]

Welcome to Course Registration

Please Enter your Following details

Name:

M Mohammed Riyaz Khan

Rollnumber:

21CS031

Regulation	Course Code	Course Name
2021	21UCS403	Algorithm Analysis
2021	21UCS402	Computer Networks
2021	21UCS407	Computer Networks Laboratory
2021	21UGM431	Gender Equality
2021	21UIT404	Java Programming (Integrated Course)

Select Courses

Add 21UCS403 Algorithm Analysis?(yes-1/no-0)

1

Added successfully

Add 21UCS402 Computer Networks?(yes-1/no-0)

1

Added successfully

Add 21UCS407 Computer Networks Laboratory?(yes-1/no-0)

0

Add 21UGM431 Gender Equality?(yes-1/no-0)

0

Add 21UIT404 Java Programming (Integrated Course)?(yes-1/no-0)

0

Courses for confirmation

Name: M Mohammed Riyaz Khan

Roll number : 21CS031

Regulation	Course Code	Course Name
2021	21UCS403	Algorithm Analysis
2021	21UCS402	Computer Networks

Proceed to confirmation? (1=yes/0=no)

0

Try again later

Regulation	Course Code	Course Name
2021	21UCS403	Algorithm Analysis
2021	21UCS402	Computer Networks
2021	21UCS407	Computer Networks Laboratory
2021	21UGM431	Gender Equality
2021	21UIT404	Java Programming (Integrated Course)

Select Courses

Add 21UCS403 Algorithm Analysis?(yes-1/no-0)

1

Added successfully

Add 21UCS402 Computer Networks?(yes-1/no-0)

1

Added successfully

Add 21UCS407 Computer Networks Laboratory?(yes-1/no-0)

1

Added successfully

Add 21UGM431 Gender Equality?(yes-1/no-0)

1

Added successfully

Add 21UIT404 Java Programming (Integrated Course)?(yes-1/no-0)

1

Added successfully

Courses for confirmation

Name: M Mohammed Riyaz Khan

Roll number : 21CS031

Regulation	Course Code	Course Name
2021	21UCS403	Algorithm Analysis
2021	21UCS402	Computer Networks
2021	21UCS407	Computer Networks Laboratory
2021	21UGM431	Gender Equality
2021	21UIT404	Java Programming (Integrated Course)

Proceed to confirmation? (1=yes/0=no)

1

Registration is completed