LOVELY PROFESSIONAL UNIVERSITY

PLACEMENT DRIVE APP

ASSIGNMENT

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

SUBMITTED BY:-   PROJECT IN CHARGE:-

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Q 5: Write an application for placement office such that the Student objects can be stored in an array. Student contains attributes name, registration number, cgpa, course (B. Tech/MBA/M Tech) and placement status(true/false). Use appropriate constructor for the Student class. Now implement a method which takes the minimum cgpa and eligible course as an argument and returns the number of eligible students for that placement drive. Method must display the details of all the Students who are eligible (i.e. having cgpa greater than the argument one, belong to the same course as required and are not placed.)

In main, Read the cgpa and course from the command line argument and display the eligible students.

```java
import java.util.ArrayList;
import java.util.Scanner;

/*
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*/

class Placement_Drive
{
        Scanner sc = new Scanner(System.in);
        //Please increse the n value According to Number of Student
        //if you want to put Number of Student = 5 than n = 5
        static int n = 5;
        class Data
        {
                String name;
                String course;
                long reg_no;
                float cgpa;
                boolean status;

                Data(String name,String course, long reg_no, float cgpa, boolean status)
                {
                        this.name = name;
                        this.course = course;
                        this.reg_no = reg_no;
                        this.cgpa = cgpa;
                        this.status = status;
                }
        }

        public static void main(String args[])
        {
                Scanner sc = new Scanner(System.in);
                String f_course;
                float f_cgpa;

                 //Input of Student Details..
                String name[] = new String[n];
                String course[] = new String[n];
```

```java
        long reg_no[] = new long[n];
        float cgpa[] = new float[n];
        boolean status[] = new boolean[n];
        int no = 0;
        for(int i = 0;i<n;i++)
        {
                no++;
                System.out.println("\nEnter the Details of Student "+no);
                System.out.println("Enter the Name ");
                name[i] = sc.next();
                System.out.println("Enter the Course Name ");
                course [i] = sc.next();
                System.out.println("Enter the Registration Number ");
                reg_no[i] = sc.nextLong();
                System.out.println("Enter the Cgpa ");
                cgpa[i] = sc.nextFloat();
                System.out.println("Enter the Placement Status True/False");
                status[i] = sc.nextBoolean();
        }

/*String name[] = {"Ujjwal Kumar", "Rahat Khan", "Talib Khan", "Aszad Khan","Ram kumar"};
        String course[] = {"Btech", "Mtech", "Btech", "Btech","Btech"};
        long reg_no[] = {1190, 8999, 14499, 5000,18990};
        float cgpa[] = {7.45f, 6.56f, 7.55f,8.77f,6.89f};
        boolean status[] = {true,false,true,true,true};
        */


        Placement_Drive custom = new Placement_Drive();

        ArrayList<Data> list=new ArrayList<>();
        custom.addValues(list,name, course, reg_no, cgpa, status);
        f_course = args[0];
        f_cgpa = Float.parseFloat(args[1]);
        custom.getMobiles(list,f_course,f_cgpa);
    }

    // For Adding the Value in ArrayList

     void addValues(ArrayList<Data> list,String name[], String course[], long reg_no[], float
cgpa[],boolean status[] )
    {
            for (int i = 0; i < n; i++)
            {
                    list.add(new Data(name[i], course[i], reg_no[i], cgpa[i],status[i]));
            }
    }

    // Display The Details of Student According to Conditions

     void getMobiles(ArrayList<Data> list,String f_course, float f_cgpa)
    {
            int count = 0,f = 0;
            String c[] = {"Btech","MBA","Mtech"};
            for (int j = 0; j < c.length; j++)
```

```
                {
                        if(c[j].equals(f_course))
                        {
                                for (int i = 0; i < n; i++)
                                {
                                        Data data = list.get(i);
                                        if(data.cgpa>=f_cgpa && data.course.equals(f_course))
                                        {
                                                System.out.println("Name : "+data.name+"
                                                Course_Name : "+data.course+" Registration :
                                                "+data.reg_no+" CGPA : "+data.cgpa+" Placemant
                                                Status : "+data.status);
                                                count++;
                                        }
                                        else if(count <=0 && i == n-1)
                                        {
                                                System.out.println("\nThere is No one  Eligible For
                                                Placement_Drive ");
                                                f++;
                                                break;
                                        }
                                }
                                if(count > 0)
                                {
                                        System.out.println("\nThe Total Number_of_Student Eligible
                                        for Placemant = > "+count);
                                        break;
                                }
                        }
                        else if(j ==c.length-1 && count <=0 && f<1)
                        {
                                System.out.println("\nPlease Enter the Course_Name
                                Btech/MBA/Mtech");
                                break;
                        }
                }
        }
}
```

@ If you want to show the .java file Please Click Githublink

Github link :- https://github.com/talebulislam/Java-Programming

Static Input According Output :-

```
C:\Windows\System32\cmd.exe

E:\4th Sem\JAVA Programming\Source Code\Projects>javac Placement_Drive_Finilized.java

E:\4th Sem\JAVA Programming\Source Code\Projects>java Placement_Drive Btech 6.5

1. Name : Ujjwal Kumar Course_Name : Btech Registration : 1190 CGPA : 7.45 Placemant Status : true

2. Name : Talib Khan Course_Name : Btech Registration : 14499 CGPA : 7.55 Placemant Status : true

3. Name : Ram kumar Course_Name : Btech Registration : 18990 CGPA : 6.89 Placemant Status : true

The Total Number_of_Student Eligible for Placemant = > 3

E:\4th Sem\JAVA Programming\Source Code\Projects>java Placement_Drive Mtech 5

1. Name : Rahat Khan Course_Name : Mtech Registration : 8999 CGPA : 6.56 Placemant Status : false

The Total Number_of_Student Eligible for Placemant = > 1

E:\4th Sem\JAVA Programming\Source Code\Projects>java Placement_Drive MBA 6.5

1. Name : Aszad Khan Course_Name : MBA Registration : 5000 CGPA : 8.77 Placemant Status : true

The Total Number_of_Student Eligible for Placemant = > 1

E:\4th Sem\JAVA Programming\Source Code\Projects>
```

```
C:\Windows\System32\cmd.exe

E:\4th Sem\JAVA Programming\Source Code\Projects>java Placement_Drive Btech 8.7

There is No one  Eligible For Placement_Drive

E:\4th Sem\JAVA Programming\Source Code\Projects>java Placement_Drive Mtech 8.7

There is No one  Eligible For Placement_Drive

E:\4th Sem\JAVA Programming\Source Code\Projects>java Placement_Drive MBA 9.6

There is No one  Eligible For Placement_Drive

E:\4th Sem\JAVA Programming\Source Code\Projects>
```

Dynamic Input According Output :-