OOP Innovative Assignment College Seat Allotment System

Made By: 21BCE186 ARYA PATEL 21BCE187 BHARVI PATEL 21BCE197 JANAM PATEL

Project Functionalities with description: This program takes inputs from student. In this inputs, Program takes number of students appear for board exam and percentile of 3 subjects(PCM) and also percentile of GUJCET. If student is applying from JEE exam , it takes the input accordingly. After taking all inputs, it calculate the rank of the student and give appropriate college suggestion for the student.

OOP concepts Used: Inheritance, Constructors, Exception handling, File handling.

Project Code:

```
import java.util.*;
import java.io.*;
class scholar_student{
    Scanner sc = new Scanner(System.in);
    String name;
    double PCMpr, gujcetpr, jeepr;
    int rank,c;
    void input() {
        System.out.println("ENTER STUDENT'S NAME ");
        name = sc.nextLine();
        System.out.println("1.ACPC\n2.JEE\nENTER YOUR CHOICE : ");
        c = sc.nextLint();
        if(c==1) {
            System.out.println("ENTER STUDENT'S PCM BOARD PERCENTILE : ");
            PCMpr = sc.nextDouble();
            System.out.println("ENTER STUDENT'S GUJCET PERCENTILE : ");
            gujcetpr = sc.nextDouble();
        }
        else if(c==2) {
            System.out.println("ENTER STUDENT'S PCM BOARD PERCENTILE : ");
            pcMpr = sc.nextDouble();
            System.out.println("ENTER STUDENT'S JEE PERCENTILE : ");
            jeepr = sc.nextDouble();
        }
    }
    double rank_cal() {
        if(c==1) {
            double r1;
            r1=(100-((0.6*PCMpr)+(0.4*gujcetpr)));
            return r1;
    }
}
```

```
college(){
```

```
fw.write("Congratulation you can apply for CSE
```

```
college co = new college();
```

Text File:

College_list.txt

```
| 1. | College 1 |
| 2. | College 2 |
| 3. | College 3 |
```

| 4. | College 4 |

```
| 5. | College 5 |
| 6. | College 7 |
| 8. | College 8 |
| 9. | College 9 |
| 10. | College 10 |
| 11. | EXIT PROGRAM |
```

2) Result_file.txt

Initially the file is empty, output will be stored in this file after the program run successfully.

OUTPUT:

Taking Input of student:

```
| 1. | College 1 |
| 2. | College 2 |
| 3. | College 3 |
| 4. | College 4 |
| 5. | College 5 |
| 6. | College 7 |
| 8. | College 8 |
| 9. | College 9 |
| 10.| College 10 |
| 11.|EXIT PROGRAM|
Enter your choice out of the above colleges :
you have selected College 1
Better luck next time, you can not apply for admission at College 1 :(
try any another college
| 1. | College 1 |
| 2. | College 2 |
| 3. | College 3 |
| 4. | College 4 |
| 5. | College 5 |
| 6. | College 7 |
| 8. | College 8 |
| 9. | College 9 |
| 10.| College 10 |
| 11.|EXIT PROGRAM|
Enter your choice out of the above colleges :
you have selected College 2
Congratulation you can apply for CSE , EE , Civil and Mechanical branches at College 2 !!
Process finished with exit code 0
```

Text file Input:

Output stored in Text file:

THANK YOU.