

Java Assessment ReTest 31-Aug-2

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Description

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Participants Registration

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The CSE department plans to conduct an intra-college paper presentation event. Circular has been sent to all the department heads and invited students to enroll for the event. Online Registration form is open and participants can enroll themselves by providing their name, gender and the department they belong. If a participant gives the gender other than female(F), male(M) or transgender(T), the system should print the message "Invalid Gender" otherwise "Registration Successful" message should be printed .

Partial Code is given to do the above task. In the Participant class, you are provided with the method setGender. Inside this method you need to write logic for validating the gender, if the gender other than 'M/F/T' then this method should throw a "GenderInvalidException". From the main method invoke the setGender method and handle the exception and print the appropriate message.

Sample Input and Output 1:

Enter Name

Sam

Enter Department

ECE

Enter Gender

M

Registration Successful



Mathew

Enter Department

CIVIL

Enter Gender

A

Invalid Gender

Requested files

ParticipantRegistration/src/GenderInvalidException.java

```
1 //make the necessary change to make this class an Exception
2 public class GenderInvalidException {
3
4 }
5
```

ParticipantRegistration/src/Participant.java



```
5 private String department;
6 public String getName() {
7     return name;
8 }
9 public void setName(String name) {
10     this.name = name;
11 }
12 public char getGender() {
13     return gender;
14 }
15 public void setGender(char gender) throws GenderInvalidException {
16     if (gender == 'M' || gender == 'F' || gender == 'T' || gender == 'm' || gender ==
17         this.gender = gender;
18 }
19 else{
20 }
21 }
22 }
23 public String getDepartment() {
24     return department;
25 }
26 public void setDepartment(String department) {
27     this.department = department;
28 }
29 }
30 }
```

ParticipantRegistration/src/UserInterface.java

```
1 import java.util.Scanner;
2
3 public class UserInterface {
4
5     public static void main(String[] args) {
6         Scanner sc=new Scanner(System.in);
7         System.out.println("Enter Name");
8         String name=sc.nextLine();
9         System.out.println("Enter Department");
10        String dept=sc.nextLine();
11        System.out.println("Enter Gender");
12        char gender = sc.nextLine().charAt(0);
13
14        Participant obj = new Participant();
15        obj.setName(name);
16        obj.setDepartment(dept);
17        obj.setGender(gender);
18
19        // fill the code
20
21    }
22
23 }
24
25
26
```



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