

Assignment-1

Name of Student: Bhavin Patil

Batch: B3

Branch: Computer

Roll No: 78

Problem Statement

A VIT Melange committee is conducting auditions to admit interested candidates. You need to implement a Participant class for the dance club based on the class diagram and description given below.

C-Participants
<ul style="list-style-type: none">• <u>counter: int</u>• registrationId: String• name: String• contactNumber: long• branch: String
<ul style="list-style-type: none">○ Participant(name:String,contactNumber:long,branch:String)○ getRegistrationId(): String○ <u>getCounter(): int</u>○ <u>setCounter(counter:int):void</u>○ getName():String○ setName(name:String):void○ getContactNumber():long○ setContactNumber(contactNumber:long):void○ getBranch():String○ setBranch(branch:String):void

Method Description

Participant(String name, long contactNumber, String branch)

- Initialize the name, contactNumber and branch instance variables appropriately with the values passed to the constructor.
- Generate the registrationId using the static variable counter.
- The value of registrationId should start from 'D1001' and the numerical part should be incremented by 1 for the subsequent values.
- Initialize the counter in static block.

Implement the appropriate getter and setter methods.

Test the functionalities using the provided Tester class. Create two or more Participant objects and validate that the values of the member variables are proper.

Sample Input and Output

For constructor

Input

For first Participant object

Parameters	Values
name	Rohit
contactNumber	1234567889
branch	Computer

For second Participant object

Parameters	Values
name	Sayli
contactNumber	1988612300
branch	Mechanical

Expected Output

Hi Rohit! Your registration id is D1001

Hi Sayli! Your registration id is D1002

Program:

```
import java.util.*;

public class student {

    int contactNumber, registratoId;
    String name, branch;
    static int i;
    static {
        i = 1001;
    }

    student(String name, String branch, int contactNumber) {
        this.registratoId = i;
        this.contactNumber = contactNumber;
        this.name = name;
        this.branch = branch;
        i++;
    }

    public void display()
    {
        System.out.println("Hi "+name+"! Your Registration ID is D"+registratoId);
    }

    public static void main(String[] args) {
        student s1 = new student("Rohit","Computer", 1234567889);
        s1.display();
        student s2 = new student("Sayli","Mechanical", 1988612300);
        s2.display();
    }
}
```

Results:

Actual Output

Hi Rohit! Your Registration ID is D1001

Hi Sayli! Your Registration ID is D1002