**Experiment-1**

**Name of Student: Atharva Salitri**

**Batch: 2 Branch: CSAI-B Roll No.: 37**

**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-Participant** |
| * counter: int * registrationId: String * name: String * contactNumber: long * branch: String |
| * **C**Participant(name:String,contactNumber:long,branch:String) * getRegistrationId(): String * getCounter(): int * setCounter(counter:int):void * getName():String * setName(name:String):void * getContactNumber():long * setContactNumber(contactNumber:long):void * getBranch():String * setBranch(branch:String):void |

**Method Description**

**Partcipant(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 and branch is: Computer  Hi Sayli! Your registration id is D1002 and branch is: Mechanical |

**Code :**

class Participant {  
 private static int counter;  
 private long contact\_no;  
 private String name;  
 private String branch;  
 private String reg\_id;  
   
 static {  
 counter = 1001;  
 }  
 public Participant (String name, long contact\_no, String branch) {  
 this.name = name;  
 this.contact\_no = contact\_no;  
 this.branch = branch;  
 reg\_id = "D" + counter;  
 counter++;  
 }  
 public String getName() {  
 return name;  
 }  
 public String getReg\_id() {  
 return reg\_id;  
 }  
 public String getBranch() {  
 return branch;  
 }  
}  
  
class Tester {  
 public static void main(String[] args) {  
   
 Participant participant1 = new Participant ("Rohit", 1234567889L, "Computer");  
 Participant participant2 = new Participant ("Sayli", 1988612300L, "Mechanical");  
   
 Participant[] participants = { participant1, participant2 };  
  
 for (Participant participant : participants) {  
 System.out.println("Hi "+participant.getName()+"! Your registration id is "+participant.getReg\_id());  
 System.out.println("Your branch is "+participant.getBranch());  
 }  
 }  
}

**Results:**

**Actual Output**

