

TASK 1

Pattern: Singleton

```
workspace-papyrus - SDA_Lab12_Task1/src/User1.java - Papyrus
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
  EurekaServer [boot]
  Item-Catalog [boot] [devtools]
  SDA_Lab12_Example
  SDA_Lab12_Task1
    JRE System Library [JavaSE-1.8]
      (default package)
        Preferences.java
        User1.java
        User2.java
  SDA_Lab12_Task2
  SDA_Lab12_Task3
  SDA_Lab12_Task4
  Servers
  Student-Service [boot] [devtools]

public class User1 {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Preferences object = Preferences.getPreference();

        System.out.println("===== User No 1 =====");
        System.out.println("Object Address ==> " + object);
        object.SetMusic("AURORA - Runaway");
        object.SetCardDesign("Diamonds");
        object.SetColour("Red");

        object.showPreferences();

        // ... (code for User No 2) ...
    }
}

@ Javadoc Declaration Console Progress
<terminated> User1 [Java Application] C:\Program Files\Java\jre1.8.0_281\bin\javaw.exe (May 24, 2021 11:17:13 PM - 11:17:14 PM)
===== User No 1 =====
Object Address ==> Preferences@15db9742
Colour ==> Red
Music ==> AURORA - Runaway
Design ==> Diamonds
===== User No 2 =====
Object Address ==> Preferences@15db9742
Colour ==> Black
Music ==> MEMBA - For Aisha
Design ==> Spades
```

TASK 2

Pattern: Singleton

```
workspace-papyrus - SDA_Lab12_Task2/src/Hyderabad.java - Papyrus
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
  EurekaServer [boot]
  Item-Catalog [boot] [devtools]
  SDA_Lab12_Example
  SDA_Lab12_Task1
  SDA_Lab12_Task2
    JRE System Library [JavaSE-1.8]
      (default package)
        Hyderabad.java
        Karachi.java
        Voting.java
  SDA_Lab12_Task3
  SDA_Lab12_Task4
  Servers
  Student-Service [boot] [devtools]

public class Hyderabad {
    public static void main(String[] args) {
        System.out.println("===== Hyderabad =====");
        Voting object = Voting.getVotersList();
        System.out.println("Object Address ==> " + object);
        object.castVote("Voter_No_4");
        object.castVote("Voter_No_5");
        object.castVote("Voter_No_6");
        System.out.println("***** List *****" + object.getList());
    }
}

@ Javadoc Declaration Console Progress
<terminated> Karachi [Java Application] C:\Program Files\Java\jre1.8.0_281\bin\javaw.exe (May 24, 2021 11:15:19 PM - 11:15:20 PM)
===== Karachi =====
Object Address ==> Voting@15db9742
***** List *****
Voter_No_1
Voter_No_2
Voter_No_3

===== Hyderabad =====
Object Address ==> Voting@15db9742
***** List *****
Voter_No_1
Voter_No_2
Voter_No_3
Voter_No_4
Voter_No_5
Voter_No_6
```

