OOPs lab assignment (DAY 1)

Question :
Write a Java Program to print Hello World.

Source Code :

```java
class helloworld {
    public static void main(String args[]) {
        System.out.println("Hello World!");
    }
}
```

Output:

```
PS C:\Users\RITABRATA> cd "f:\RITABRATA ASSIGNMENTS\SEMESTER 5\java OOPS\Lab\" ; if ($?) { javac hellowor
Hello World!
PS F:\RITABRATA ASSIGNMENTS\SEMESTER 5\java OOPS\Lab> cd "f:\RITABRATA ASSIGNMENTS\SEMESTER 5\java OOPS\La
helloworld }
Hello World!
PS F:\RITABRATA ASSIGNMENTS\SEMESTER 5\java OOPS\Lab> []
```

Question:
Create a class Employee having emp_id, name, salary, designation.

Use constructor overloading for designing 3 types of employees--

       i) Freshers (name should be user given and other parameters should be fixed)

       ii)Executive (Name, salary and designation should be user given)

       iii)Temporary member (All the parameter having fixed values)

Create an employee array and create and store 3 Employee objects and print the detail.

Code :

```java
import java.util.Scanner;
class Employee{
    int emp_id;
    String name;
    int salary;
    String designation;
```

```java
    Employee(String Name){
        name = Name;
        emp_id = 1156;
        salary = 24250;
        designation = "Software Analyst";
    }

    Employee(String Name , int Salary , String Desg){
        name = Name;
        emp_id = 1289;
        salary = Salary;
        designation = Desg;
    }
    Employee(){
        name = "Temporary_Member";
        emp_id = 1000;
        salary = 1000;
        designation = "Client";
    }
}

public class assignment2 {
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        Employee[] arr = new Employee[3];
        System.out.println("Press E to save details of Executive Employee");
        System.out.println("Press F to save details of Fresher Employee");
        System.out.println("Press any other key for temporary employee");

        for(int i =0;i<3;i++){
            System.out.println("Enter the type of Employee: ");
            char type = sc.next().charAt(0);
            if(type == 'E') {
                System.out.println("Enter the salary of the employee:");
                String s = sc.next();
                int salary =  Integer.parseInt(s);
                System.out.println("Enter the name of the employee:");
                String name = sc.next();
                System.out.println("Enter the designation of the employee:");
                String designation = sc.next();
                arr[i] = new Employee(name,salary,designation);
                System.out.println();
            }
            else if(type == 'F') {
                System.out.println("Enter the name of the employee:");
```

```java
                String name = sc.next();
                arr[i] = new Employee(name);
                System.out.println();
            } else {
                arr[i] = new Employee();
                System.out.println();
            }
        }


        for(Employee e : arr) {
            System.out.println("name of employee : " + e.name);
            System.out.println("ID of employee : " + e.emp_id);
            System.out.println("Salary of employee : " + e.salary);
            System.out.println("Designation of the employee : " + e.designation);
            System.out.println();
        }
    }
}
```

Output:

```
PS C:\Users\RITABRATA> cd "f:\RITABRATA ASSIGNMENTS\SEMESTER 5\java OOPS\Lab\" ; if ($?) { javac assignment2.java } ; if ($?) { java assignment2 }
Press E to save details of Executive Employee
Press F to save details of Fresher Employee
Press any other key for temporary employee
Enter the type of Employee:
E
Enter the salary of the employee:
180000
Enter the name of the employee:
Ritabrata
Enter the designation of the employee:
System-Designer

Enter the type of Employee:

t

Enter the type of Employee:
F
Enter the name of the employee:
Sankalpa

name of employee : Ritabrata
ID of employee : 1289
Salary of employee : 180000
Designation of the employee : System-Designer

name of employee : Temporary_Member
ID of employee : 1000
Salary of employee : 1000
Designation of the employee : Client

name of employee : Sankalpa
ID of employee : 1156
Salary of employee : 24250
Designation of the employee : Software Analyst

○ PS F:\RITABRATA ASSIGNMENTS\SEMESTER 5\java OOPS\Lab> ▌
```