class Test2

public static void main(String[] args)

System.out.println(Test1.a);

## **STATIC METHODS AND STATIC VARIABLES**

```
1. HOW TO ACCESS STATIC MEMBER OF ONE CLASS WITHIN SAME CLASS
class Test1
     static int a = 10;
     static double b = 3.14;
     public static void main(String[] args)
           System.out.println(a);
           m1();
           System.out.println(b);
     }
     public static void m1()
           System.out.println("inside m1 method");
     }
}
  2. HOW TO ACCESS STATIC MEMBER OF ONE CLASS IN OTHER CLASS WITHIN SAME SOURCE FILE
class Test1
     static int a = 10;
     static double b = 3.14;
     public static void main(String[] args)
           int x = 5;
           System.out.println(x);
     }
     public static void m1()
           System.out.println("inside m1 method");
     }
}
```

```
Test1.m1();
            System.out.println(Test1.b);
      }
}
   • REINTIALIZATION OF A SATIC VARIABLE OF ONE CLASS IN OTHER CLASS
class Test1
      static int x = 1;
      static double y = 2;
      public static void main(String[] args)
      {
            System.out.println(x);
            System.out.println(y);
      }
}
class Test2
      public static void main(String[] args)
            System.out.println(Test1.x);
            System.out.println(Test1.y);
            Test1.x = 10;
            Test1.y = 2.2;
            System.out.println(Test1.x);
            System.out.println(Test1.y);
      }
}
```

# **NOTE:**

- WE CAN MAKE STATIC VARIABLE AS FINAL
- IF WE MAKE STATIC VARIABLE AS FINAL THEN WE CAN NOT REINTIALISE IT
- > PROGRAM TO PRINT THE DEFAULT VALUES OF STATIC VARIABLES

```
class Test1
{
     static int a;
```

### **IMPORTANT CONCLUSIONS**

- WE CAN ACCESS STATIC MEMBERS OF ONE CLASS WITHIN THE SAME CLASS DIRECTLY
- WE CAN ACCESS STATIC MEMBERS OF ONE CLASS IN ANOTHER CLASS BY USING CLASS NAME
  - □ SYNTAX:
    - ◆ CLASS\_NAME.STATIC\_METHOD()
    - CLASS\_NAME.STATIC\_VARIABLE\_NAME;
- WE CAN REINITIALIZE STATIC MEMBERS OF ONE CLASS IN ANOTHER CLASS USING CLASS NAME
  - □ SYNTAX : CLASS\_NAME.STATIC\_VARIABLE\_NAME = NEW\_VALUE
- WE CAN USE THE FINAL KEYWORD WITH STATIC VARIABLE ALSO, IF WE USE FINAL KEYOWRD WE CAN NOT REINITIALIZE THE VARIABLE

### TASK - 1

- 1. IN FIRST CLASS THERE MUST TWO METHODS
  - a. 1<sup>ST</sup> SHOULD READ THE NUMBER
  - **b.** 2<sup>ND</sup> METHOD SHOULD FIND THE PALINDROME OF THAT NUMBER
- 2. IN THE SECOND CLASS THERE MUST BE A MAIN METHOD, IN WHICH METHOD CALLING SHOULD HAPPEN FOR BOTH THE STATIC METHODS

#### STATIC MEMBERS LOADING

 WE CAN ACCESSS STATIC MEMBERS OF ONE CLASS BY USING CLASS NAME BECAUSE THE STATIC MEMBERS WILL LOADED INTO CLASS MEMORY WHILE WE LOAD THE CLASS TO JVM FOR EXECUTION AND THIS CLASS MEMORY WILL HAVE SAME AS THAT OF CLASS NAME

```
class Test1
{
    static int r = 7;
    static String s = "BitsQ";
```