JAVA PROGRAMMING PRACTICAL JOURNAL

1. OOPs concepts in Java - 1

Write a program to create a class and implement a default, overloaded and copy a) Constructor. class MyClass private int a; // Default Constructor public MyClass() System.out.println("Default Constructor"); // Overloaded Constructor public MyClass(int value) a=value; System.out.println("Parameterized Constructor and value is: "+a); // Copy Constructor public MyClass(MyClass other) a = other.a;System.out.println("Copy Constructor and value is: "+a); } public class Pr public static void main(String[] args) MyClass obj1 = new MyClass(); MyClass obj2 = new MyClass(7); MyClass obj3 = new MyClass(obj2);

output:

}

```
D:\NewJavaP>javac Pr.java

D:\NewJavaP>java Pr
Default Constructor
Parameterized Constructor and value is: 7
Copy Constructor and value is: 7
```

```
Write a program to create a class and implement the concepts of Method
Overloading.
  class OperOver
            // Method to add two integers
            public int add(int a, int b)
                 return a + b;
            // Method to add three integers
            public int add(int a, int b, int c)
                 return a + b + c;
   public class Pr1b
            public static void main(String[] args)
                      OperOver obj = new OperOver();
                      // Method Overloading Examples
                      int sum1 = obj.add(5, 10);
                      int sum2 = obj.add(5, 10, 15);
                      System.out.println("Sum of two integers: " + sum1);
                      System.out.println("Sum of three integers: " + sum2);
```

8,8,8,

```
Output:
```

```
D:\NewJavaP>javac Pr1b.java
D:\NewJavaP>java Pr1b
Sum of two integers: 15
Sum of three integers: 30
```

c) Write a program to create a class and implement the concepts of Static methods. class DemoStaticMethods // Static method to add two numbers public static int add(int a, int b) return a + b; // Static method to subtract two numbers public static int subtract(int a, int b) return a - b; public class Pr1c public static void main(String[] args) // Calling static methods directly on the class int sum = DemoStaticMethods.add(8, 4); int difference = DemoStaticMethods.subtract(7, 6); System.out.println("Sum: " + sum); System.out.println("Difference: " + difference); } Output: D:\NewJavaP>javac Pr1c.java D:\NewJavaP>java Pr1c

Sum: 12

Difference: 1