Practical No. 1

Aim: a. Write a program to create a class and implement a default, overloaded and copy Constructor.

Code:
```
class MyClass
{
    private int a;
    public MyClass()
    {
        System.out.println("Default Constructor");
    }
    public MyClass(int value)
    {
        a=value;
        System.out.println("Parameterized Constructor and value is:"+a);
    }
    public MyClass(MyClass other)
    {
        a = other.a;
        System.out.println("Copy Constructor and value"+a);
    }
}
public class pra1a
{
    public static void main(String[] args)
    {
        MyClass obj1 = new MyClass();
        MyClass obj2 = new MyClass(7);
        MyClass obj3 = new MyClass(obj2);

    }
}
```

Output:
```
C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>javac pra1a.java

C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>java pra1a
Default Constructor
Parameterized Constructor and value is:7
Copy Constructor and value7
```

Practical No. 1

Aim: b. Write a program to create a class and implement the concepts of Method Overloading

Code:
```java
class OperOver
{
    public int add(int a,int b)
    {
        return a+b;
    }
    public int add(int a,int b,int c)
    {
        return a+b+c;
    }
}
public class pra1b
{
    public static void main(String[] args)
    {
        OperOver obj= new OperOver();
        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);


    }
}
```

Output:

```
C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>javac pra1b.java

C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>java pra1b
Sum of two integers:15
Sum of three integers:30

C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>
```

Practical No. 1

Aim: c. Write a program to create a class and implement the concepts of Static methods

Code:

```
class DemoStaticMethods
{
    public static int add(int a,int b)
    {
        return a+b;
    }
    public static int sub(int a,int b)
    {
        return a-b;
    }
}
public class pra1c
{
    public static void main(String[] args)
    {
        int sum = DemoStaticMethods.add(8,4);
        int diff = DemoStaticMethods.sub(7,6);

        System.out.println("Sum:"+sum);
        System.out.println("Sub integers:"+diff);

    }
}
```

Output:

```
C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>javac pra1c.java

C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>java pra1c
Sum:12
Sub integers:1

C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>
```