

# LAB 1

Q1. Learn some basic concepts of oops using java.

```
class Basic{

    public static void main(String a[])
    {
        // System.out.print(6);
        System.out.println(6);
        System.out.println(7);
        int num1=2;
        int num2=3;
        int sum = num1+num2;
        System.out.println(sum);
        int mul = num1*num2;
        int div = num1/num2;
        int sub = num1-num2;
        System.out.println(mul);
        System.out.println(div);
        System.out.println(sub);
        if(sum>=6){
            System.out.println("greter");
        }
        else{
            System.out.println("Smaller");}
        double num5=5.6;
        float num6=5.6f; //This is explicit typecast because double is default
datatype for decimal
        System.out.println(num5);
        System.out.println(num6);
        short sh=558;
        long l=5854; // this is running because my jdk is above 17 and if my jdk
is 17 then it will give error then we have to typecast it into l
        System.out.println(sh);
        System.out.println(l);
        byte b=127;
        int c=12;
        System.out.println(c==b);
        c=b;
        b=(byte)c; // this is giving error because byte takes 1 byte and int
takes 4bytes
        // System.out.println();
        int flag=5;
        System.out.println(b);
    }
}
```

```

        while(flag>0)
        {
            System.out.println("Success");
            flag--;
        }
        do {
            System.out.println("Success "+flag);
            flag++;
        } while (flag<6);
    }
}

```

## Output :

```

• (base) PS C:\Users\sansk\OneDrive\Desktop\java codes> javac Basic.java
• (base) PS C:\Users\sansk\OneDrive\Desktop\java codes> java Basic
6
7
5
6
0
-1
Smaller
5.6
5.6
558
5854
false
127
Success
Success
Success
Success
Success
Success 0
Success 1
Success 2
Success 3
Success 4
Success 5
○ (base) PS C:\Users\sansk\OneDrive\Desktop\java codes>

```

Q2. Now apply these basic concepts and make a class which contains the details of smartphone

```
public class Lab1 {  
    String Brand;  
    static String product;  
    int price;  
    public void show()  
    {  
        System.out.println(Brand + " " + product + " " + price);  
    }  
    public static void main(String a[])  
    {  
        Lab1.product="Smartphone";  
        Lab1 obj1=new Lab1();  
        obj1.price=50000;  
        obj1.Brand="Samsung";  
        obj1.show();  
        Lab1 obj2=new Lab1();  
        obj2.price=60000;  
        obj2.Brand="Samsung";  
        obj2.show();  
    }  
}
```

## Output :

```
• (base) PS C:\Users\sansk\OneDrive\Desktop\java codes> javac Lab1.java  
• (base) PS C:\Users\sansk\OneDrive\Desktop\java codes> java Lab1  
Samsung Smartphone 50000  
Samsung Smartphone 60000
```