Q. Java Program to print "Hello World"

Program

```
class lab_program1 {
    public static void main (String a[]) {
        System.out.println ("Hello World");
    }
}
```

Q. Program to check if a number is prime or not

Program :

```
class lab_program1 {
    public static void main (String a[]) {
        int x=7, i, count=0;
        for (i=0; i<x; i++) {
            if (x%i==0) {
                count++;
                break;
            }
        }
        if (count==0) {
            System.out.println ("Prime");
        }
        else {
            System.out.println ("Not prime");
        }
    }
}
```

Q. Program to print fibonacci series

Program :

```
class lab_program1 {
    public static void main (String a[]){
        int x =0 , y = 1 , z ;
        system.out.print ( x + "," );
        System.out.print ( y + "," ) ;
        for (int i=0 ; i< 10 ; i++)
        {
            z= x+ y ;
            System.out.print (z+ "," );
            x = y ;
            y = z ;
        }
    }
```

Output : 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89

Q. Program to check if a triangle is scalar, isosceles or equilateral.

program :

```
class lap_program {
    public static void main (string s[]) {
        int a = 2 , b = 3 , c= 5;
        if (a == b && b== c) {
            system.out.println ("Equilateral")
        }
        else if (a==b || b==c || c== a) {
            System.out.println ("Isosceles")
        }
```

```
    else {
        system.out.println ("Scaleus");
    }
  }
}
```

Output :

Scaleus

5. Program to calculate Simple Interest

→
```
class lab-program {
    public static void main (string s[]) {
        int p=1000, r=2, t=2;
        float si = (p*r*t)/100;
        System.out.print ("S.I: " + si);
    }
}
```

Output :

S.I: 40.0

6. Program to swap two numbers

Program :

```
class program {
    public static void main (string s[]) {
        int a=5, b=2, temp;
        system.out.println ("Before swapping :"+a+","
                                                +b);
        temp = a;
        a=b;
        b= temp;
```

```
        system.out.println(" After swap : " + a + ", " + b);
    }
}
```

Output:

```
Before swapping : 5, 2
After swap : 2, 5
```

25-9-24