LAB - 1

1. Program to print "Hello World"

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

O/P:
Hello World

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

→
```
class hello_world{
    public static void main(String a[]){
        int b=5, count=0;
        for(int i=0; i<b; i++){
            if(b%i==0){
                count=1;
                break;
            }
        }
        if(count==0){
            System.out.print("Prime");
        }
        else{
            System.out.print("Not Prime");
        }
    }
}
```

O/P:
Prime

3. Program to print fibonacci series

→
```
class hello_world{
public static void main(String s[]){
        int a=0, b=1, c;
        System.out.print(a+" ,");
        System.out.print(b+" ,");
        for(int i=0; i<10; i++){
                c=a+b;
                System.out.print(c+" ,");
                a=b;
                b=c;
        }
}
}
```

O/P: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89

4. Program to check if a triangle is scalene, isosceles or equilateral

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

```
        else {
            System.out.print("Scalene");
            }
    }
}
```

O/P:
Scalene.

5. Program to calculate simple interest.

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

O/P:
S.I : 40.0

6. Program to swap two numbers

→
```
class hello_world{
    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.print("After swapping : " +
                    a + " , " + b);
    }
}
```

O/P : Before swapping : 5, 2
After swapping : 2, 5

25-9-24