25/09/24 LAB - 1

1) Programs to print "Hello world"

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

output: Hello World

2) Program to print fibonacci series

~~class hello~~

```
class fibonacci
 {
  public static void main (String[] args)
  {
    int a=0, b=1, c;
    System.out.print ( a+" "+b+" ");
    for (int i=2; i<10; i++){
      c=a+b;
```

```
        a=b;
        b=c;
        System.out.print(c+" ");
    }
}
}
```

output:

```
D:\1BM23CS016 - Java > javac fibonacci.java

D:\1BM23CS016 - Java > java fibonacci.java
0 1 1 2 3 5 8 13 21 34
```

3) Triangle is scalene, isosceles or equilateral

```
class triangle
{
    public static void main(String[] args){
    int a=2, b=4, c=2;
    if((a==b)&&(b==c)){
    System.out.print("Triangle is equilateral");
    }
    else if((a==b)||(a==c)||(b==c)){
    System.out.print("Triangle is Isosceles");
    }
```

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

o/p:- Triangle is Isosceles

4) Class interest // Find simple interest

```
{
  public static void main (String [] args) {
   int p = 1000, r = 5, t = 3, si;
   si = (p * r * t) / 100;
   System.out.print (si);
   }
  }
```

o/p: 150

5) Swap two numbers

```
class swap
{
  public Static void main (String [] args) {
   int a = 5, b = 9, c;
   c = a;
```

```
a=b;
b=c;
System.out.print ("a=" + a + "b= " + b);
}
}
```

O/p: a=9 b=5

c) Prime number

```
class prime {
public static void main (String [] args) {
int num=7;
int cnt=0;
for(int i=2; i<=num/2; i++){
if (num%i==0){
System.out.print ("Not prime");
cnt++
break; }}
if (cnt==0){
System.out.println("Prime");
}
}
}
```

O/p: Prime

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