LAB – 2 Programs

```
    Sample Java Program
    class FirstProgram {
        public static void main (String arg[]) {
            System.out.print("Hello World");
        }
    }
}
```

PS C:\Users\Sudhanva S M\Documents\Java> javac FirstProgram.java
PS C:\Users\Sudhanva S M\Documents\Java> java FirstProgram
Hello World

```
JUAP to print Hello world

class Furthrogram &

public mate vold main (Stung arg (1)) &

System. out printin ("Herowood");

3

Output:

Hello would )

Hello would )

Hello would )

Hello would )
```

2. Simulate a simple calculator and show the add, subtract, multiply and divide options.

```
class Calculator { 
 public static void main (String arg[]) { 
 double c = 5.0/3.0; 
 System.out.println("Addition of 5 + 3 = " + (5+3)); 
 System.out.println("Subtraction of 5 - 3 = " + (5-3)); 
 System.out.println("Multiplication of 5 * 3 = " + (5*3)); 
 System.out.println("Division of 5 / 3 = " + c); 
 } 
}
```

```
2) WAP in Java to show add, subtract, multiply
  case Calmeator &

public static wid main (string aug (3) of
          double c = 5.0/3.0;
          System.out.printta ("Addition of 5+3=" + (5+3));
         System out printer ("Subtraction of 5-3=
                           + (5-37) 36 01811
         System out println ("Multiplication of 543="
                           + (5+3));
         System. out. prantin (" Devision of 5/3 = "
 output:
  Addition of 5+3 = 8
 Subtraction of 5-3=2
 Mutiqueation of 5*3=15
 Durucon of 5/3 = 1.666666667
```

3. Write a Java program to calculate simple interest.

```
class SimpleInterest {
    public static void main (String arg[]) {
        double p, t, r, si;
        p = 1784;
        t = 1.2;
        r = 0.28;
        si = (p*t*r);
        System.out.println("Principle Amount = " + p);
        System.out.println("Time Period = " + t);
        System.out.println("Rate of Interest = " + r);
        System.out.println("Simple Interest = " + si);
    }
}
```

```
PS C:\Users\Sudhanva S M\Documents\Java> javac SimpleInterest.java
PS C:\Users\Sudhanva S M\Documents\Java> java SimpleInterest
Principle Amount = 1784.0
Time Period = 1.2
Rate of Interest = 0.28
Simple Interest = 599.424
```

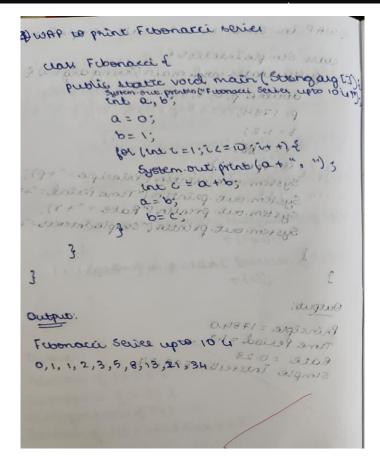
```
8) WAP in Java to calculate semple Interest
class Semple Interest &

public static void mair (String arg []) {
      double p, b, 8,5%;
      P= 1784;
      t= 1-2;
      Y=0.281=35,1=3 Jay
     System, out printin ("Principle ="+P);
      System out painter ("Time Persod = "++);
      System out prenter ("Rate = "+ 8);
      System. out. printer (" semple Enterest="+59)
  3
 Output.
                                   01970
 Principle = 1784.0
  Time Period = 1. Eyaqu will inamou?
  simple Interest = 699.248
  Rate = 0.28
```

4. Write a Java program to generate Fibonacci series.

```
class Fibonacci {
    public static void main (String arg[]) {
        int a = 0, b = 1, c;
        System.out.println("Fibonacci Series upto 10 is");
        for (int i = 1; i <= 10; i++) {
            System.out.print(a + " ");
            int c = a + b;
            a = b;
            b = c;
        }
    }
}</pre>
```

PS C:\Users\Sudhanva S M\Documents\Java> javac Fibonacci.java
PS C:\Users\Sudhanva S M\Documents\Java> java Fibonacci
Fibonacci Series upto 10 is
0 1 1 2 3 5 8 13 21 34



5. Write a Java program to print multiplication table of 3 and 5 class MultiplicationTable { public static void main(String arg[]) { System.out.println("Multiplication Table of 3 is"); for (int i = 1; $i \le 10$; i++) { System.out.println(3 + " * " + i + " = " + (3*i)); } System.out.println("\nMultiplication Table of 5 is"); for (int i = 1; $i \le 10$; i++) { System.out.println(5 + " * " + i + " = " + (5*i)); } } } PS C:\Users\Sudhanva S M\Documents\Java> javac MultiplicationTable.java PS C:\Users\Sudhanva S M\Documents\Java> java MultiplicationTable Multiplication Table of 3 is 3 * 2 = 6 3 * 3 = 9 3 * 4 = 12 * 5 = 15 3 * 6 = 183 * 7 = 213 * 8 = 243 * 9 = 273 * 10 = 30Multiplication Table of 5 is 5 * 1 = 55 * 2 = 10 5 * 3 = 15 5 * 4 = 205 * 5 = 255 * 6 = 305 * 7 = 35

5 * 8 = 40 5 * 9 = 45 5 * 10 = 50

```
B) w AP to print meutopiration tables of.
 3 8 5.
can Mentiplication &
   public states void main (Streng ang [] &
       Ent n1=3; +3; 8= 47:4=1)
       Ent n = 5; parter ("mulpliation bable of 3 is");
       for (unt =1;1 <= 10;1+1) f
       System. out, prenter (n'+"x"+2+"="
                               + (n1*1);
       System out printer ("Mutiphination bable
       for (nx t=1; (=10; i++) {
         System out prenter (n2 +" +"+ 2+
output:
multiplication table of 3 is
3 x1 = 3
3x2=6
323=9
 3x 4= 12
 3 x 5= 15
 3 x 6= 18
  3×7=21
  3 x 8 = 24
  3x9 = 27
   3210=30
Multiplication table of 4 4
         5 15 = 25
                     5x9 = 45
 521=5
         5x6 = 30
                     5 ×10 = 50
 5x2=10
         527=35
5x3=15
         528=40
 5x4=20
```

6. Write a Java program to print factorial of a given number. class Factorial { public static void main (String arg[]) {

```
public static void main (String arg[]){
    int factorial = 1;
    for (int i=1; i<=6; i++){
        factorial*=i;
    }
    System.out.println("Factorial of 6 is: " + factorial);
}</pre>
```

PS C:\Users\Sudhanva S M\Documents\Java> javac Factorial.java
PS C:\Users\Sudhanva S M\Documents\Java> java Factorial
Factorial of 6 is: 720

cau Factorial of a number

cau Factorial of public state void main (String, aug ()) (

public state void main (String, aug ()) (

por (1=1;7<=6;0+t) of some state

gov (1=1;7<=6;0+t) of some state

System. but printer ("Factorial of 6 11:"+)

System. but printer ("Factorial of 6 11:"+)

Factorial of 6 11:7290 massis

Factorial of 6 11:7290 massis