```java
class Calculator
{
    public static void main(String arg[])
    {
         int a=2, b=5;
         int sum=a+b, diff=a-b, prod=a*b, quo=a/b;


         System.out.println("the sum is:" + sum );
         System.out.println("the difference is:" + diff);
         System.out.println("the product is:" + prod);
         System.out.println("the quotient is:" + quo);
    }
}
```

```
C:\Users\student\Documents\Srinidhi>javac Calculator.java

C:\Users\student\Documents\Srinidhi>java Calculator
the sum is:7
the difference is:-3
the product is:10
the quotient is:0
```

```java
class SimpleInterest
{
    public static void main(String arg[])
    {
       int p=100, t=2, r=5;
       int sI=(p*t*r)/100;
       System.out.println("the simple interest is:" + sI);
    }
}
```

```
C:\Users\student\Documents\Srinidhi>java SimpleInterest
the simple interest is:10
```

```java
class Fibonacci
{
    public static void main(String arg[])
    {
       int n=5;
       int first=0,second=1,third;
       System.out.println("The Fibonacci series:");
       System.out.println(first);
       System.out.println(second);
       for(int i=0;i<n;i++){
       third=first+second;
       first=second;
       second=third;
       System.out.println(third);}
    }
}
```

```
C:\Users\student\Documents\Srinidhi>java Fibonacci
The Fibonacci series:
0
1
1
2
3
5
8
```

```java
class Tables
{
    public static void main(String arg[])
    {
         int p,q;
         for(int i=1; i<=10; i++){
         p=3*i;
         System.out.println("3X" + i +"=" + 3*i);}
         for(int i=1; i<=10; i++){
         q=5*i;
         System.out.println("5X" + i +"=" + 5*i);}
     }
}
```

```
C:\Users\student\Documents\Srinidhi>java Tables
3X1=3
3X2=6
3X3=9
3X4=12
3X5=15
3X6=18
3X7=21
3X8=24
3X9=27
3X10=30
5X1=5
5X2=10
5X3=15
5X4=20
5X5=25
5X6=30
5X7=35
5X8=40
5X9=45
5X10=50
```

```
class Factorial
{
   public static void main(String arg[])
   {
      int n=5,j=1;
      System.out.println("The factorial is:");
      for(int i=1;i<=5;i++){
      j*=i;}
      System.out.println(j);
   }
}
```

```
C:\Users\student\Documents\Srinidhi>java Factorial
The factorial is:
120
```

1. Simulate a simple calculator and show the add, subtract, multiply & devide options.

```
class Simplecalc
{
    public static void main (String arg[]);
    {
     int a=6, b=8;
     System.out.println ("addition:" +(a+b));
     System.out.println ("Subtraction:" +(a-b));
     System.out.println ("Multiply:" +(a*b));
     System.out.println ("divide:" (a/b));
    }
}
```

o/p.

addition : 14

Subtraction: -2.

multiplication : 48

divide : 0.

2. Write a java program to calculate simple interest.

```
class Simpleinterest.
{
   Public static void main( String arg[])
    {
    double  p = 450, t = 60, r = 8;
    double  si = (p*t*r)/100;
    System.out.println ("si" + si);
    }
}
```

o/p

Si = 8160.0

3. Write a java program to generate fibonacci series.

```
class Fibonacciseries
{
    public static void main(String arg[])
    {
     int a=0, b=1, n=10;
     System.out.println("Fibonacci series:");
      System.out.println(a);
      System.out.println(b);
      for (int i=0; i<n; i++)
      {
          int c = a+b;
          System.out.println(c+" ");
          a = b;
          b = c;
      }
}
```

o/p

Fibonacci series.

0
1
1
2
3
8
13
21
34

4). write a java program to print multiplication table of 3 & 5.

```
class Tables.
{
   Public static void main(String args[])
   {
      System.out.println("multiplies of 5:");
      for (int i=1; i<=10; i++)
      {
         System.out.println("5x" + " " + i + " = " + (i*5));
      }
      System.out.println("multiplication of 3: ");
      for (int j=1; j<=j++)
      {
         System.out.println("3x" + " " + j + " = " + (j*3));
      }
   }
}
```

o/p

Multiplies of 5

5
10
15
20
25
30
35
40
45
50.

Multiplies of 3

3
6
9
12
15
18
21
24
27
30.

5. Write a program to print factorial of a number.

→ class Factorial.

```
{
  public static void main(String arg[])
  {
    int num = 6;
    int fact = 1;
    System.out.println("factorial" + num + "
                        is :");
    while (num != 0) {
      fact * = num;
      num --;
    }
    System.out.println(fact);
  }
}
```

o/p Factorial of 6 is :720

22/9