

① First program

```
class FirstProgram {
    public static void main (String args[])
    {
        System.out.println ("Hello world");
    }
}
```

O/P

Hello world

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

```
class SimpleCalculator {
```

```
    public static void main (String args[])
    {
```

```
        int a = 12;
```

```
        int b = 5;
```

```
        int sum = a+b;
```

```
        int mult = a*b;
```

```
        int sub = a-b;
```

```
        int div = a/b;
```

```
        System.out.println (sum);
```

```
        System.out.println (mult);
```

```
        System.out.println (sub);
```

```
System.out.println(div);
}
}
```

Qr

```
17  
60  
7  
2
```

3) Simulate a simple interest

```
import java.util.*;
class SimpleInterest {
    public static void main(String[] args) {
        int p = 7000, t = 3;
        float r = 4.5f;
        System.out.println("SimpleInterest" + (P * t * r / 100));
    }
}
```

Output

10395.0 9us

w) Fibonacci Series

```
class Fibonacci {  
    public static void main (String [] args) {  
        System.out.println ("First 10 elements of Fibonacci  
        series");  
        int n1=0, n2=1, temp;  
        System.out.print ("0");  
        for (int i=0; i<9; i++) {  
            n1=n1+n2; // i+1th element  
            temp=n2;  
            n2=n1;  
            n1=temp;  
            System.out.print (", " + n1);  
        }  
    }  
}
```

Output

0 1 2 3 5

(4)

```

public class FourthProgram {
    public static void main (String[] args) {
        System.out.println ("Multiplication of 3");
        for (int i = 1; i <= 10; i++) {
            System.out.println ("3x" + i + "=" + (3 * i));
        }
        System.out.println ("Multiplication of 5");
        for (int i = 1; i <= 10; i++) {
            System.out.println ("5x" + i + "=" + (5 * i));
        }
    }
}

```

(5)

class
P

Output~~for~~

Multiplication of 3

$$3 \times 1 = 3$$

$$3 \times 2 = 6$$

$$3 \times 3 = 9$$

$$3 \times 4 = 12$$

$$3 \times 5 = 15$$

$$3 \times 6 = 18$$

$$3 \times 7 = 21$$

$$3 \times 8 = 24$$

$$3 \times 9 = 27$$

$$3 \times 10 = 30$$

Multiplication of 5

~~$$5 \times 1 = 5$$~~

~~$$5 \times 2 = 10$$~~

~~$$5 \times 3 = 15$$~~

~~$$5 \times 4 = 20$$~~

~~$$5 \times 5 = 25$$~~

~~$$5 \times 6 = 30$$~~

~~$$5 \times 7 = 35$$~~

~~$$5 \times 8 = 40$$~~

~~$$5 \times 9 = 45$$~~

~~$$5 \times 10 = 50$$~~

out

(5)

```
class FifthProgram {
    public static void main (String [] args) {
        int num = 10;
        long factorial = 1;
        for (int i=1; i<=num; i++) {
            factorial *= i;
        }
        System.out.println ("Factorial of 10");
    }
}
```

Output

~~factorial of 10 = 362880~~

~~Ans
229x.~~