

1 Sum of two numbers

```
class P1 {  
    public static void main(String[] _args) {  
        int a = 44;  
        int b = 56;  
  
        System.out.println(a + " + " + b + " = " + (a + b));  
    }  
}
```

Output:

44 + 56 = 100

2 Factorial of a number

```
class P2 {  
    public static void main(String[] _args) {  
        int a = 5, b, f;  
        b = f = a;  
  
        while (b-- > 1)  
            f *= b;  
  
        System.out.println(a + "! = " + f);  
    }  
}
```

Output:

5! = 120

3 Greatest of 3 numbers

```
class P3 {  
    public static void main(String[] _args) {  
        int a = 5, b = -5, c = 55, mx;  
  
        if (a > b && a > c)  
            mx = a;  
        else if ( b > a && b > c)  
            mx = b;  
        else  
            mx = c;  
  
        System.out.println("max(" + a + ", " + b + ", " + c + ") = " + mx);  
    }  
}
```

Output:

max(5, -5, 55) = 55

4 Fibonacci series

```
class P4 {  
    public static void main(String[] _args) {  
        int n = 10;  
        int a = 0, b = 1;  
        System.out.println("First " + n + " elements of the fibonacci series:");  
        new P4().fibonacci(n, a, b);  
    }  
  
    void fibonacci(int n, int a, int b) {  
        if (n == 0)  
            return;  
        System.out.println(a);  
        fibonacci(n - 1, b, a + b);  
    }  
}
```

Output:

First 10 elements of the fibonacci series:

0
1
1
2
3
5
8
13
21
34

5 Percentage marks and grades for 3 subjects

```
import java.util.function.Consumer;

class P5 {
    public static void main(String[] _args) {
        int sub[] = { 64, 91, 45 };
        P5 obj = new P5();
        int sum = 0;

        for (int i = 0; i < sub.length; i++) {
            obj.grade(sub[i], i + 1);
            sum += sub[i];
        }

        System.out.println("Overall Percentage: " + (float) sum / 3 + "%");
    }

    void grade(int n, int s) {
        System.out.println( "Subject " + s + " grade: " + (char)( n >= 90 ? 'A' :
            ↪ n < 50 ? 'F' : 'A' + (9 - n / 10)));
    }
}
```

Output:

```
Subject 1 grade: D
Subject 2 grade: A
Subject 3 grade: F
Overall Percentage: 66.666664%
```