1. Hello world Program

```
class HelloWorld {

    public static void main(String[] args) {

        System.out.println("Hello World");

    }
}
```

OUTPUT:

Hello World

2. Find rectangle area, reading length and breadth from console

```
import java.util.Scanner;

class RectArea {
    public static void main(String[] args) {


        Scanner sc = new Scanner(System.in);

        System.out.print("Enter the length of rectangle: ");

        float l = sc.nextFloat();

        System.out.print("Enter the breadth of rectangle: ");

        float b = sc.nextFloat();

        System.out.println("The area of rectangle is " + l*b + " square units.");

    }
}
```

OUTPUT:

Enter the length of rectangle: 2

Enter the breadth of rectangle: 3

The area of rectangle is 6.0 square units.

3. Use enhanced for loop to find the sum of array elements

```java
import java.util.Scanner;

class Sum {
    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.print("Enter the number of elements in the array: ");
        int n=sc.nextInt();

        int[] array = new int[20];
        System.out.println("Enter the elements of the array: ");
        for(int i=0; i<n; i++)  {
            array[i]=sc.nextInt();
        }

        int sum=0;
        for(int i : array) {
            sum = sum + array[i];
        }

        System.out.println("The sum of all the elements of array is: " + sum);
    }
}
```

OUTPUT:

Enter the number of elements in the array: 5

Enter the elements of the array:

1

2

3

4

5

The sum of all the elements of array is: 15

4. Wriite a Program using loop to print following pattern

```
* * *
 * *
  *
```

import java.io.*;

class Pyramid {

    public static void main(String[] args) {

        int n=3;

        for(int i=n; i>=1; i--) {

            for (int j=i; j<n; j++) {

                System.out.print(" ");

            }

            for (int j=i; j<=(2*i-1); j++) {

                System.out.print("*");

            }

            System.out.println("");

        }

    }

}

OUTPUT:

***

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  *