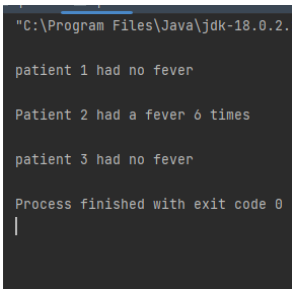
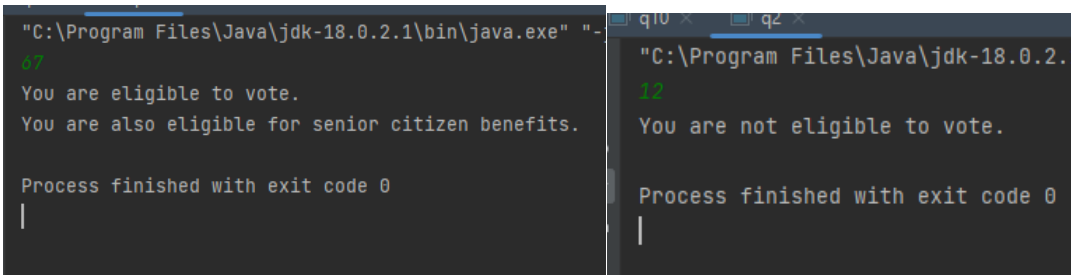
1.



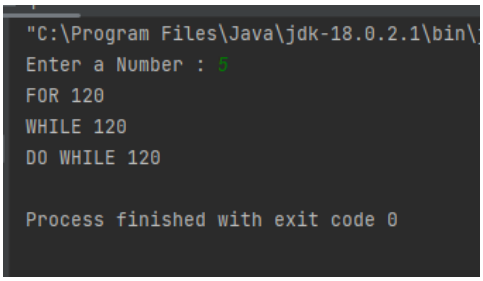

```
public class q1 {
    public static void main(String[] args) {
    double[][] temperatures = {
            {36.5, 36.7, 37.1, 36.8, 36.6, 37.0, 36.9},
            {38.2, 37.8, 38.0, 37.0, 37.5, 38.1, 37.6},
            {36.4, 36.3, 36.5, 36.2, 36.6, 36.7, 36.8}
    };
    int patentNo = 1;
        for (double temperatur[]: temperatures) {
            int feverTimes = 0;
            System.out.println();
            for (double eachTemp:temperatur) {
                if (eachTemp>=37.5){
                    feverTimes++;
                }
            }
            if ((feverTimes > 0)) {
                System.out.println("Patient " + patentNo++ + " had a fever " +
feverTimes + " times");
            } else {
                System.out.println("patient "+ patentNo++ + " had no fever");
            }
        }
    }
}
```

2.




```
import java.util.Scanner;

public class q2 {

public static void main(String[] args) {

    Scanner ageInpu = new Scanner(System.in);

      System.out.print("Enter Age : ");

    int age = ageInpu.nextInt();

    if(age >=18){

        System.out.println("You are eligible to vote.");

        if (age >= 65) {

            System.out.println("You are also eligible for senior citizen
benefits.");

        } else {

            System.out.println("You are not eligible for senior citizen
benefits.");

        }

    } else {

        System.out.println("You are not eligible to vote.");

    }

}

}
```

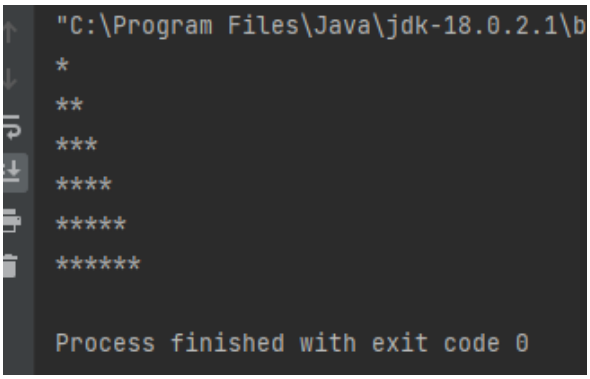
3.




```
import java.util.Scanner;

public class q3 {

    public static void main(String[] args) {

        Scanner scanObj = new Scanner(System.in);

        System.out.print("Enter a Number : ");

        int number = scanObj.nextInt();

        final int inputNumber = number;


        ///from for loop

        int fact = 1;

        for (int i = number; i >0 ; i--) {

            fact = fact * i;

        }

        System.out.println("FOR " +fact);


        /// WHILE LOOP

        fact = 1;

        while (number > 0) {

            fact = fact * number;

            number--;

        }

        System.out.println("WHILE " + fact);

        number = inputNumber;



        /// DO WHILE LOOP
```

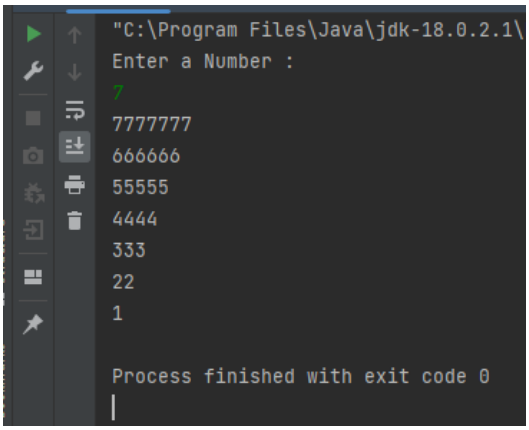
```
        fact = 1;

        do {

            fact = fact * number;

            number--;

        } while (number > 0);

        System.out.println("DO WHILE " + fact);

    }


}
```

4.



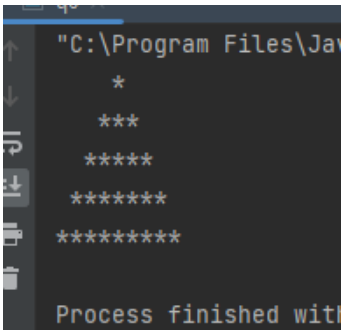

```
public class q4 {
    public static void main(String[] args) {
        for (int i = 1; i < 7; i++) {
            for (int j = 0; j < i; j++) {
            System.out.print("*");
            }
            System.out.println();
        }
    }
}
```

5.



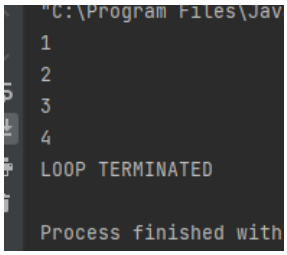

```
import java.util.Scanner;


public class Q5 {


public static void main(String[] args) {
    Scanner scanObj = new Scanner(System.in);
    System.out.println("Enter a Number :");
    int intt = scanObj.nextInt();
    for (int i = intt; i > 0; i--) {
        for (int j = intt; j > 0 ; j--) {
            System.out.print(intt);
        }
        intt--;
        System.out.println();


    }
}


}
```

6.

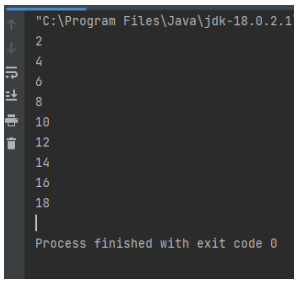



```
public class q6 {
    public static void main(String[] args) {
        int rows = 5;
        for (int i = 1; i <= rows; i++) {
            for (int j = i; j < rows; j++) {
                System.out.print(" ");
            }
            for (int k = 1; k <= (2 * i - 1); k++) {
                System.out.print("*");
            }
            System.out.println();
        }
    }
}
```

Q7.

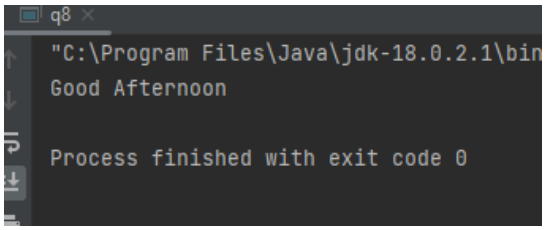



```
public class q7 {
    public static void main(String[] args) {
        for (int i = 1; i < 20; i++) {
            if (i%5==0){
                System.out.println("LOOP TERMINATED");
                break;
            }
            System.out.println(i);
        }
    }
}
```




```
public class q7_02 {
    public static void main(String[] args) {
        for (int i = 1; i < 20; i++) {
            if (i%2==1){
                continue;
            }
            System.out.println(i);
        }
    }
}
```

Q8.



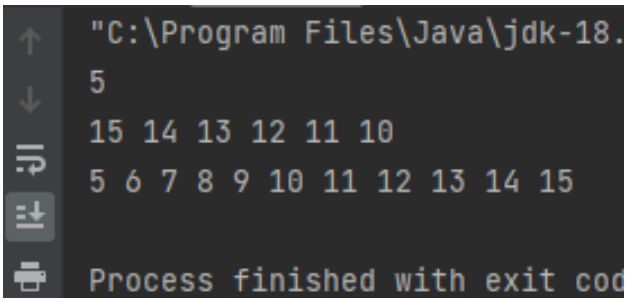

```
import java.time.LocalTime;
public class q8 {
    public static void main(String[] args) {
dateGreetMethod();
    }

    static void dateGreetMethod(){
        LocalTime myObj = LocalTime.now();
        if (myObj.getHour()<12){
            System.out.println("Good Morning");
        } else if (myObj.getHour() > 12 && myObj.getHour() <16) {
            System.out.println("Good Afternoon");
        }
        else if (myObj.getHour() > 16 && myObj.getHour() <18) {
            System.out.println("Good Evening");
        }
        else if (myObj.getHour() > 18 && myObj.getHour() <24) {
            System.out.println("Good Night");
        }
        else {
            System.out.println("Internal Error");
        }
    }
}
```

9.

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\
Enter a radius of a circle: 5
Area of Circle is 78.54
Circumference of Circle is 31.42

Process finished with exit code 0
```

```
import java.util.Scanner;


public class q9 {
    public static void main(String[] args) {
        Scanner scanObj = new Scanner(System.in);
        System.out.print("Enter a radius of a circle: ");
        double radii = scanObj.nextDouble();
        System.out.printf("Area of Circle is %.2f \n",Area(radii));
        System.out.printf("Circumference of Circle is %.2f \n",Circum(radii));
    }
    public static double Area(double radii){
        return Math.PI*radii*radii;
    }
    public static double Circum(double radii){
        return 2*Math.PI*radii;
    }
}
```

10.




```
public class q10 {
    public static void main(String[] args) {
        printRange(5, 5);
        printRange(15, 10);
        printRange(5, 15);
    }
    public static void printRange(int first, int second){
        StringBuffer strNew = new StringBuffer("");
        if (first < second) {
            for (int i = first; i <= second; i++) {
                strNew.append(i);
                strNew.append(" ");
            }
        } else if (first > second) {
            for (int i = first; i >= second; i--) {
                strNew.append(i);
                strNew.append(" ");
            }
        } else {
            strNew.append(first);
        }
        System.out.println(strNew);
    }
}
```