Nested Loops

Nested simple if

```
package com.kodnest.training.loop;
import java.util.Scanner;
public class SimpleIf {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter the
number");
        int number= scan.nextInt();
        if (number > 0) {
             if (number % 2 == 0) {
                 if (number > 10) {
System.out.println("The number is positive,
even, and greater than 10.");
```

Enter the number

12 The number is positive, even, and greater than 10.

```
Enter the number
67
```

Nested if-else

```
package com.kodnest.training.loop;
import java.util.Scanner;
public class NestedIfElse {
   public static void main(String[] args) {
       Scanner scan= new Scanner(System.in);
       System.out.println("Enter the gpa");
       float gpa= scan.nextFloat();
       System.out.println("Enter the extra
curricular activity points");
       int
extracurricularActivities=scan.nextInt();
        if (gpa >= 3.0) {
            if (extracurricularActivities >=
3) {
                System.out.println("The
student is eligible for the scholarship.");
            } else {
```

```
System.out.println("The
student is not eligible for the scholarship
due to insufficient extracurricular
activities.");
        }
        } else {
            System.out.println("The student
is not eligible for the scholarship due to
low GPA.");
        }
    }
}
```

```
Enter the gpa
3.5
Enter the extra curricular activity points
3
The student is eligible for the scholarship.
```

```
Enter the gpa

5
Enter the extra curricular activity points

2
The student is not eligible for the scholarship due to insufficient extracurricular activities.
```

Nested if-else

```
package com.kodnest.training.loop;
import java.util.Scanner;
public class Nestedelseif {
    public static void main(String[] args) {
        Scanner scan= new Scanner(System.in);
        System.out.println("Enter the value
for side1, side2 and side3");
        int side1=scan.nextInt();
        int side2=scan.nextInt();
        int side3=scan.nextInt();
            if (side1 == side2 && side2 ==
side3)
            {
               System.out.println("The
triangle is equilateral.");
            else
                if (side1 == side2 || side2
== side3 || side1 == side3)
                    System.out.println("The
triangle is isosceles.");
                else
```

```
System.out.println("The
triangle is scalene.");
}
}
}
```

```
Enter the value for side1, side2 and side3

5

7
The triangle is scalene.
```

```
Enter the value for side1, side2 and side3

3

8

The triangle is isosceles.
```

```
Enter the value for side1, side2 and side3

5

5

The triangle is equilateral.
```

Nested While Loop

```
package com.kodnest.training.loop;

public class NestedWhile {
    public static void main(String[] args) {
        int num = 5;
        int i = 1;

        while (i <= 10) {
            int result = num * i;
            System.out.println(num + " * " +
        i + " = " + result);
            i++;
        }
    }
}</pre>
```

```
5 * 1 = 5

5 * 2 = 10

5 * 3 = 15

5 * 4 = 20

5 * 5 = 25

5 * 6 = 30

5 * 7 = 35

5 * 8 = 40

5 * 9 = 45

5 * 10 = 50
```

Nested Do while Loop

```
package com.kodnest.training.loop;
import java.util.Scanner;
public class NestedDoWhile {
     public static void main(String[] args) {
            Scanner <a href="scan">scan</a>= new
Scanner(System.in);
            int sum = 0;
            int number;
            do {
                 System.out.print("Enter a
number (enter 0 to exit): ");
                number=scan.nextInt();
                 sum += number;
            } while (number != 0);
            System.out.println("The sum of
the numbers is: " + sum);
```

```
Enter a number (enter 0 to exit):

5
Enter a number (enter 0 to exit):

7
Enter a number (enter 0 to exit): 0
```

The s	sum (of	the	numbers	is:	12
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