1. Is Nested Simple-if permitted?

Ans. In Java, nested Simple-if allowed, which means you can have an ' **if** ' statement inside another ' **if** ' statement. This allows for more complex conditional branching in the code.

EXAMPLE:

package com.kodnest.training.loops;

public class NestedIf {

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

            int num=10;


            if (num > 0) {

            System.out.println("Number is positive.");


            if (num % 2 == 0) {

                System.out.println("Number is even.");


            if (num > 10) {

                System.out.println("Number is greater than 10.");

            }
        }
        }


            System.out.println("End of program.");
        }
}
```
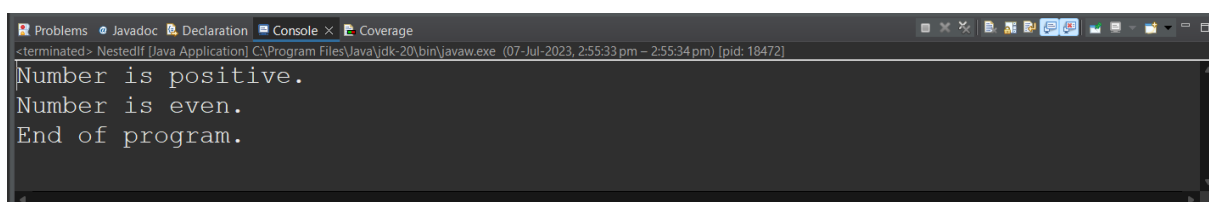
OUTPUT


```
Number is positive.
Number is even.
End of program.
```

2. Is Nested if-else permitted?

Ans. In Java, nested if-else is allowed, which means you can have an '**if -else**' statement inside another ' **if** ' statement.

EXAMPLE:

```java
package com.kodnest.training.loops;

import java.util.*;

public class NestedIfElse {

        public static void main(String[] args) {

                Scanner scan=new Scanner(System.in);

                System.out.println("Enter any number");

                int num = scan.nextInt();

                if(num>0) {

                        System.out.println("Number is positive");

                        if(num%2==0) {

                                System.out.println("Number is even");

                        }
                        else {

                                System.out.println("Number is odd");

                        }

                }
                else {

                        System.out.println("Number is negative");

                }

                System.out.println("End of the program");

        }

}
```
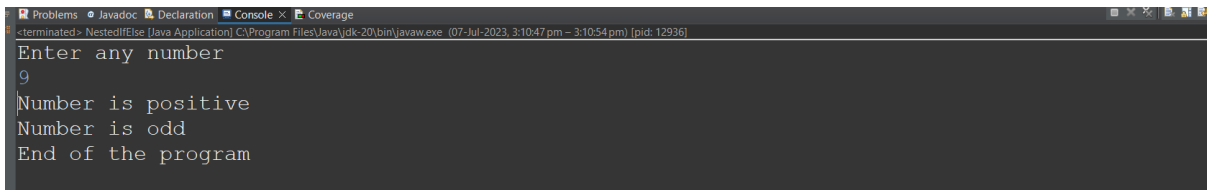
OUTPUT

```
Problems  Javadoc  Declaration  Console ×  Coverage
<terminated> NestedIfElse [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe  (07-Jul-2023, 3:10:47 pm – 3:10:54 pm) [pid: 12936]
Enter any number
9
Number is positive
Number is odd
End of the program
```

3. Is Nested else-if permitted?

Ans. In Java, nested else-if allowed, which means you can have an '**if -else**' statement inside another '**else**' statement.

EXAMPLE:

package com.kodnest.training.loops;

public class NestedIfElse {

        public static void main(String[] args) {

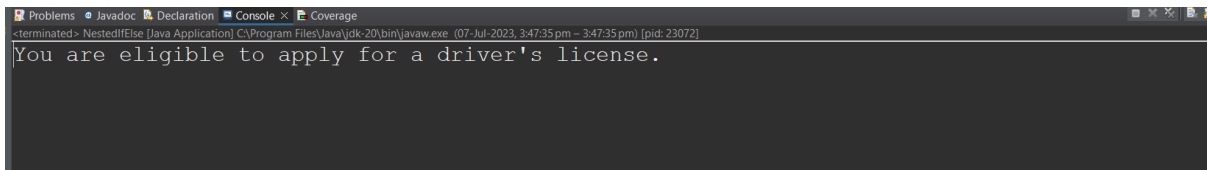   int age = 25;

                boolean hasLicense = true;

                if (age >= 18) {

                System.out.println("You are eligible to apply for a driver's license.");

                }

                else {

                        if (hasLicense) {

                        System.out.println("You already have a driver's license.");

                        }

                        else {

                        System.out.println("You are not eligible to apply for a driver's license.");

                        }

                }

        }

}

OUTPUT:

```
Problems  Javadoc  Declaration  Console ×  Coverage
<terminated> NestedIfElse [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe  (07-Jul-2023, 3:47:35 pm – 3:47:35 pm) [pid: 23072]
You are eligible to apply for a driver's license.
```

4. Is Nested while loop permitted in java?

Ans. Yes, Nested while loops are allowed in java. You can have a '**while**' loop inside another '**while**' loop to create a nested loop structure.

EXAMPLE**:**

package com.kodnest.training.loops;

public class NestedWhile {

        public static void main(String[] args) {

        int rows = 5;

         int i = 1;

        while (i <= rows) {

        int j = 1;

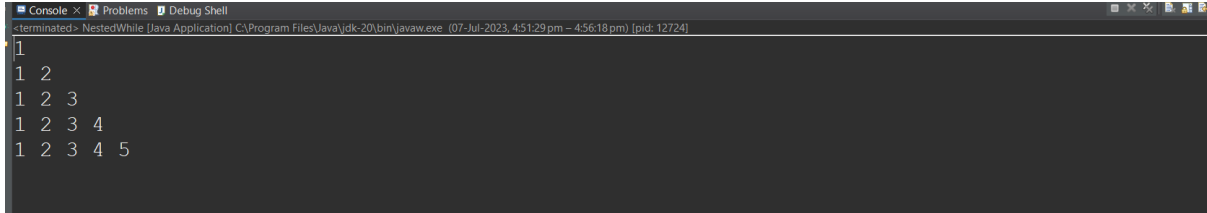   while (j <= i) {

            System.out.print(j + " ");

            j++;

            }

        System.out.println();

        i++;

        }
```

```
    }
}
```

OUTPUT

5. Is Nested do while loop permitted?

Ans. Yes, Nested do while loops are allowed in java. You can have a '**do while**' loop inside another '**do while**' loop to create a nested loop structure.

EXAMPLE:

```java
package com.kodnest.training.loops;


public class NestedDoWhile {


        public static void main(String[] args) {

                int rows = 5;

                int i = 1;


                do {

                int j = 1;

                        do {

                        System.out.print(j + " ");

                        j++;

                        } while (j <= i);


                System.out.println();

                i++;

                } while (i <= rows);
```

```
        }

}
```

OUTPUT

Problems Javadoc Declaration Console × Coverage

<terminated> NestedDoWhile [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (07-Jul-2023, 5:58:03 pm – 5:58:03 pm) [pid: 25884]

```
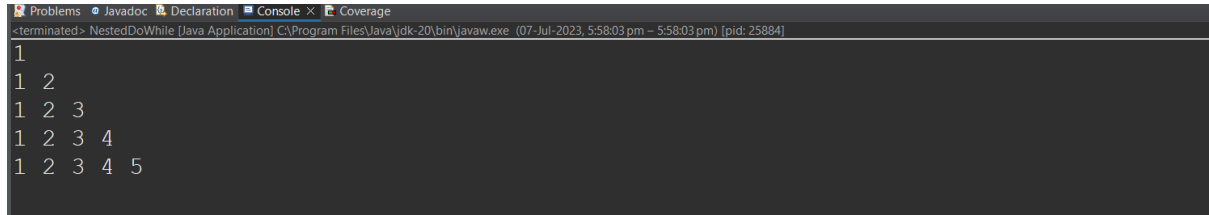1
1  2
1  2  3
1  2  3  4
1  2  3  4  5
```