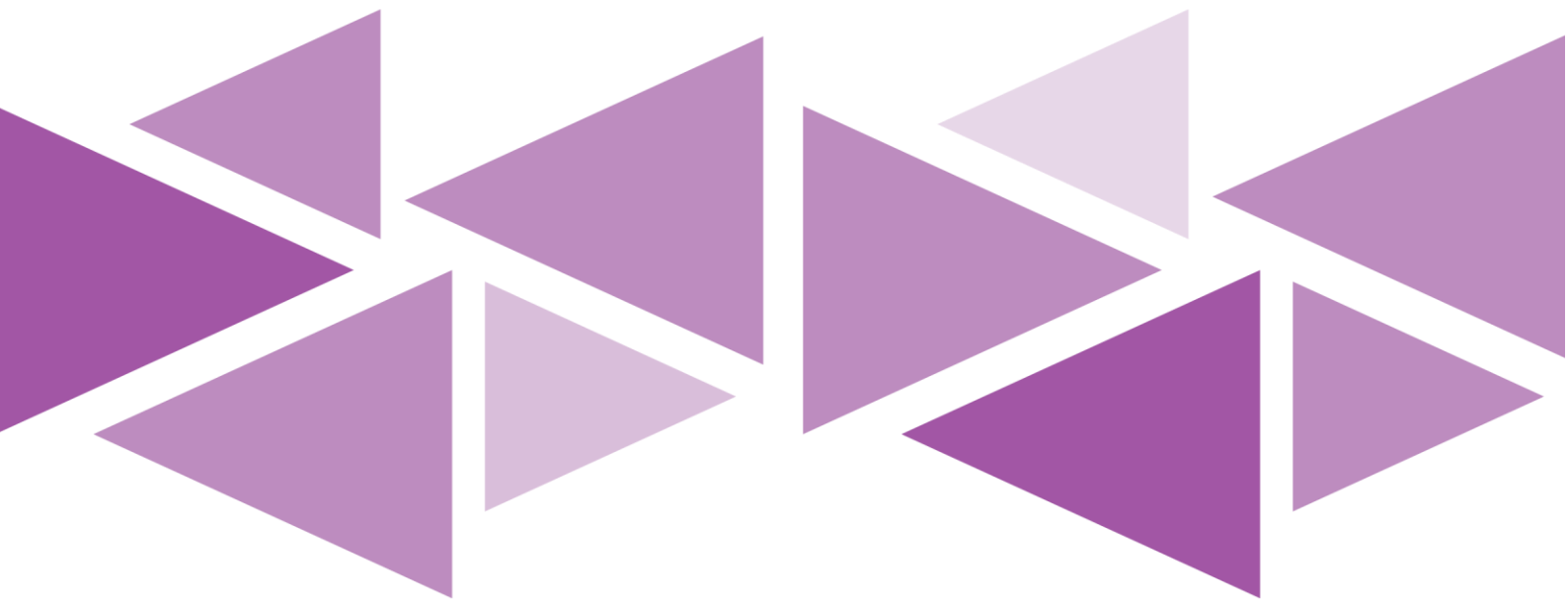# NESTED CONDITIONAL & LOOPING CONTROL CONSTRUCTS ASSIGNMENT
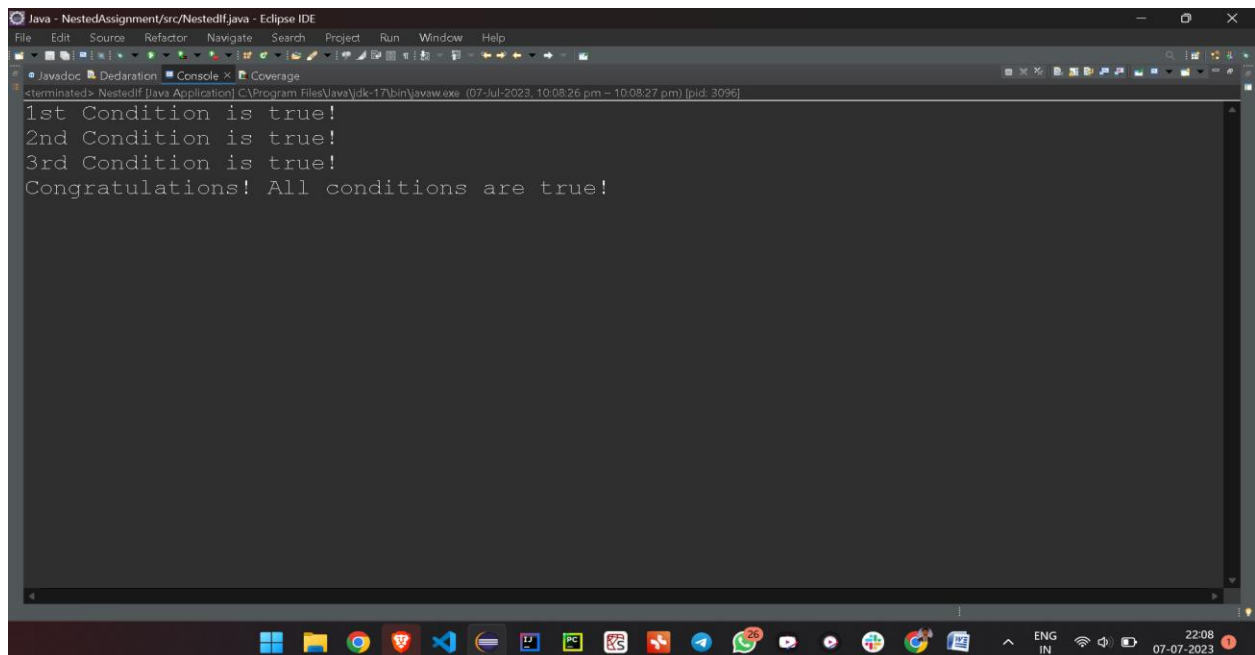
Submited by

Harish Kumbhar

Nested if Conditional Control Construct

Conclusion: Nested if conditional control construct is permitted.

Code:

```java
public class NestedIf {
    public static void main(String[] args) {
        boolean i = true;
        boolean j = true;
        boolean k = true;
        if (i) {
            System.out.println("1st Condition is true!");
            if (j) {
                System.out.println("2nd Condition is true!");
                if (k) {
                    System.out.println("3rd Condition is true!");
                    System.out.println("Congratulations! All
conditions are true!");
                }
            }
        }
    }
}
```
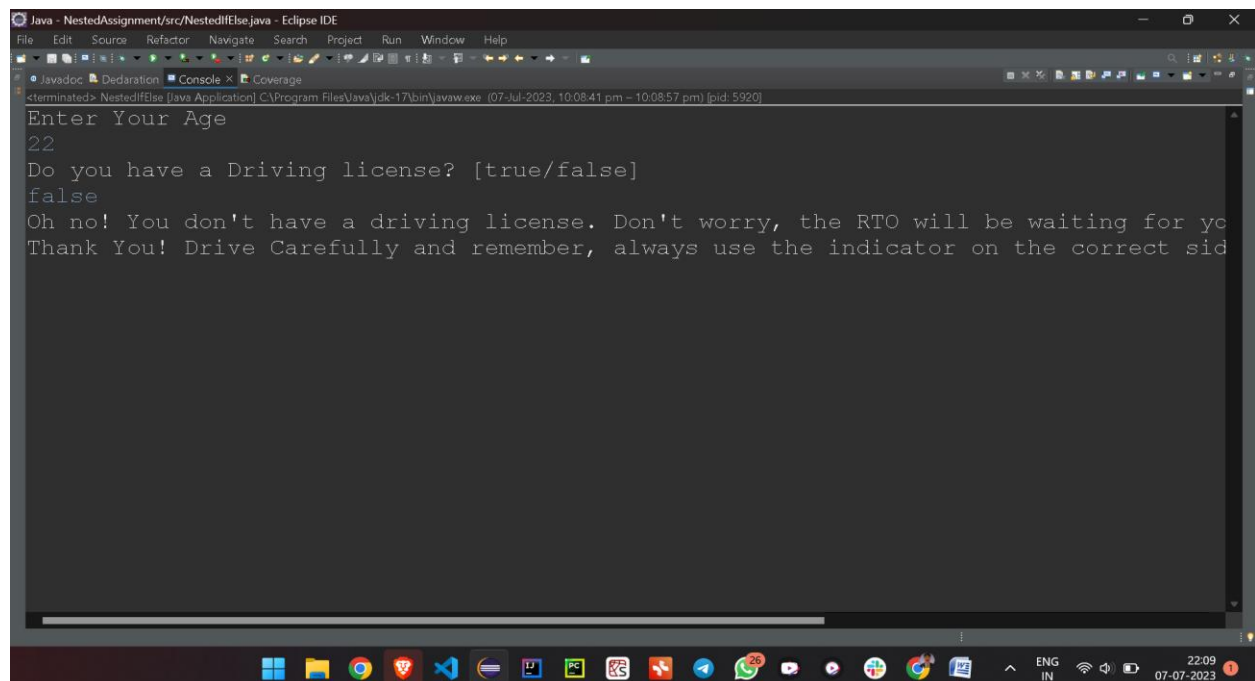
Output:

Nested if-else Conditional Control Construct

Conclusion: Nested if-else conditional control construct is permitted.

Code:

```java
import java.util.Scanner;
public class NestedIfElse {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter Your Age");
        int age = sc.nextInt();
        if (age > 18) {
            System.out.println("Do you have a Driving license? [true/false]");
            boolean dl = sc.nextBoolean();
            if (dl) {
                System.out.println("You're all set to become the next Fast and Furious star!
Just remember to bring your own explosion effects!");
            } else {
                System.out.println("Oh no! You don't have a driving license. Don't worry, the
RTO will be waiting for you with a red carpet and confetti cannons!");
            }
        } else {
            System.out.println("Your age should be more than 18. Don't worry! While you wait
to become the next Vin Diesel, practice your driving skills in Sai Driving School.");
        }
        System.out.println("Thank You! Drive Carefully and remember, always use the indicator
on the correct side.");
    }
}
```
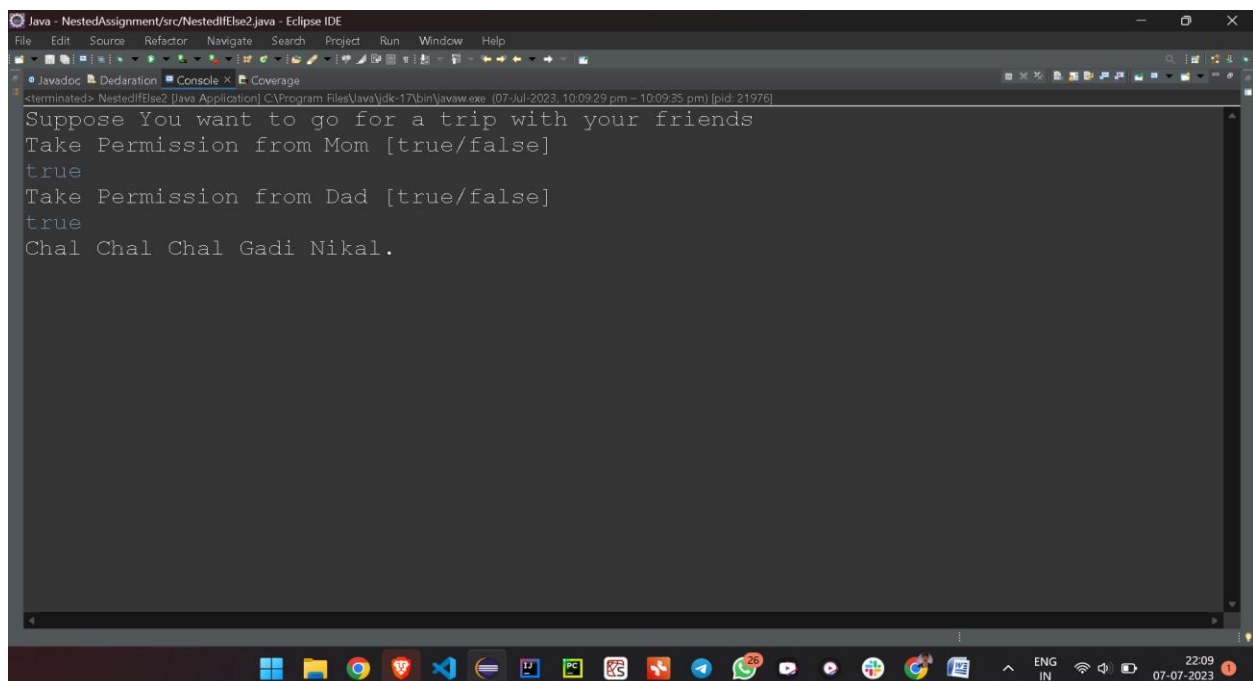
Output:

Nested if-else Conditional Control Construct

Conclusion: Nested if-else conditional control construct is permitted.

Code:

```java
import java.util.Scanner;
public class NestedIfElse2 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Suppose You want to go for a trip with your friends");
        System.out.println("Take Permission from Mom [true/false]");
        boolean mom = sc.nextBoolean();
        System.out.println("Take Permission from Dad [true/false]");
        boolean dad = sc.nextBoolean();
        boolean trip = true;
        if (mom == trip && dad == trip) {
            System.out.println("Chal Chal Chal Gadi Nikal.");
        } else {
            if (mom == trip && dad != trip) {
                System.out.println("Mom :  Ask Your Dad, if dad says yes go....");
            } else {
                System.out.println("Dad :  Ask Your Mom, if mom says yes go.....");
            }
        }
    }
}
```
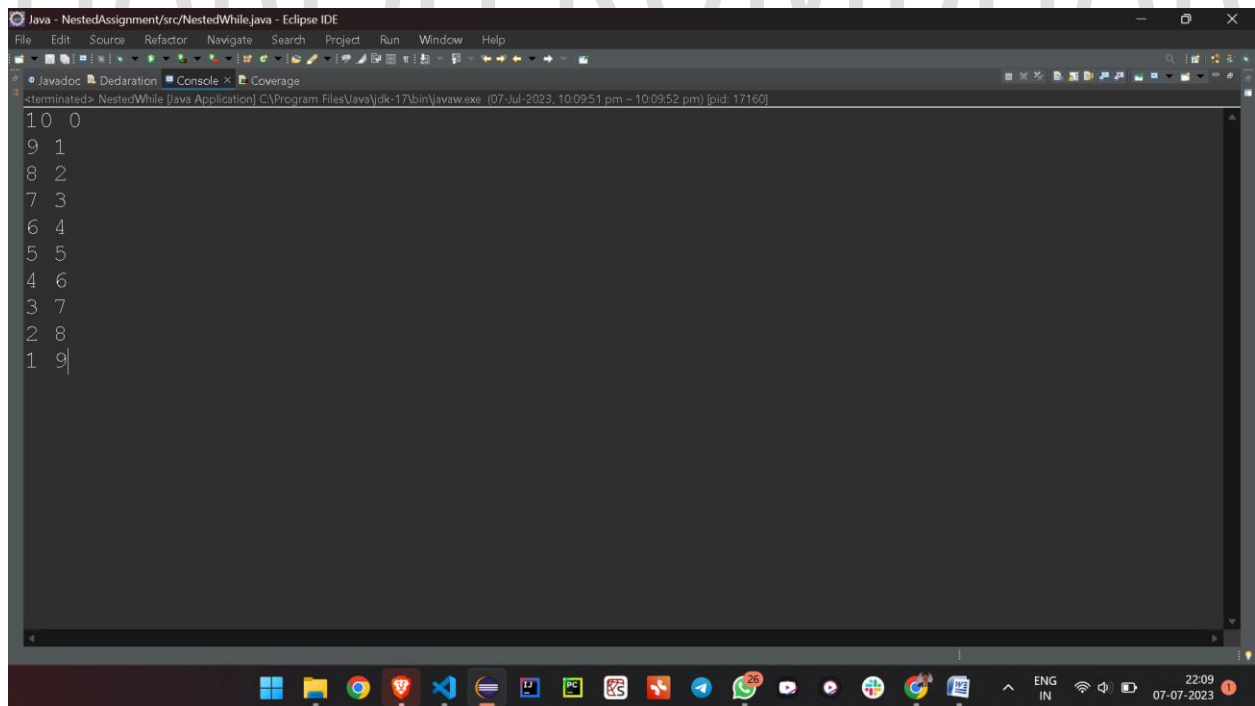
Output:

Nested while Looping Control Construct

Conclusion: Nested while looping control construct is permitted.

Code:

```java
public class NestedWhile {
    public static void main(String[] args) {
        int i = 10;
        int j = 0;
        while (i>0) {
            while (j < 10) {
                // System.out.println(i + " x " + i + " = " + j*j);
                System.out.println(i+" "+j);
                j++;
                i--;
            }
        }
    }
}
```

Output:
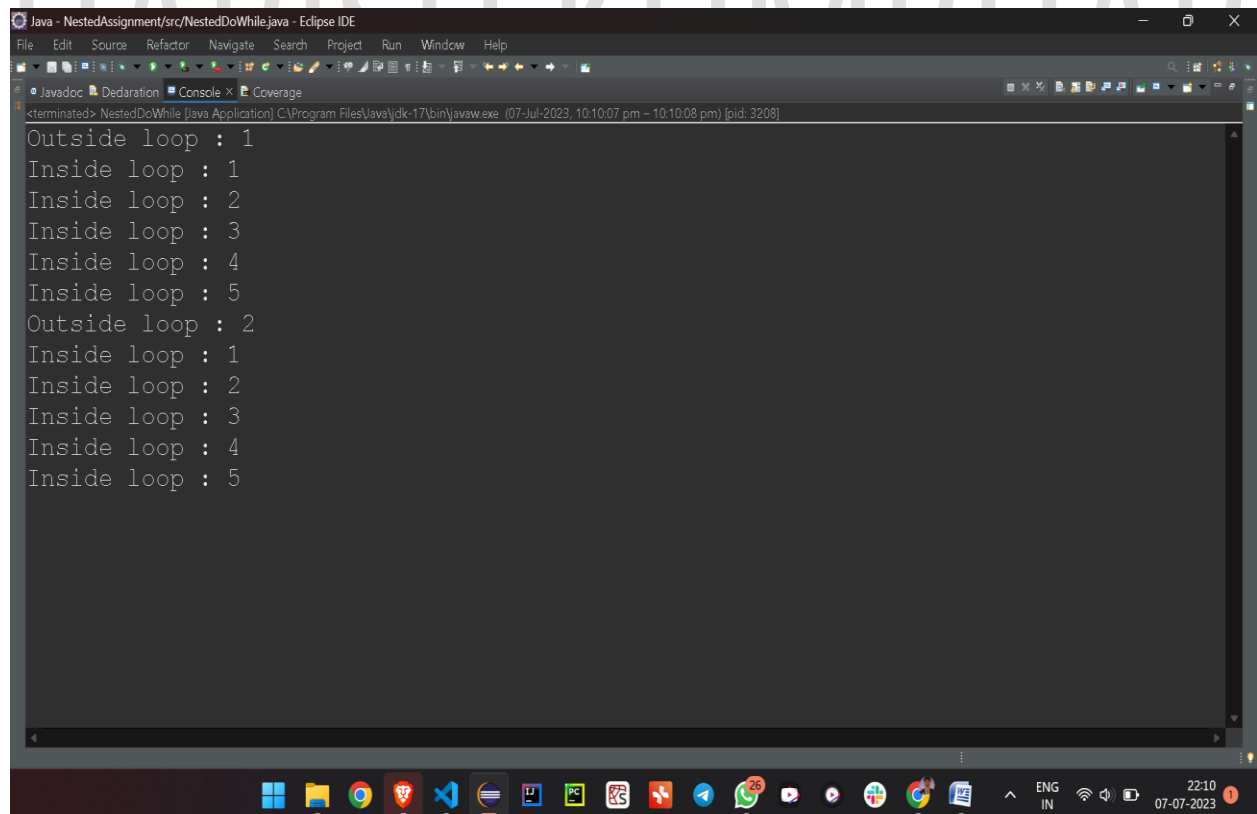
Nested do-while Looping Control Construct

Conclusion: Nested do-while looping control construct is permitted.

```java
public class NestedDoWhile {
    public static void main(String[] args) {
        int i = 1;
        do {
            System.out.println("Outside loop : " + i);
            int j = 1;
            do {
                System.out.println("Inside loop : " + j);
                j++;
            } while (j <= 5);
            i++;
        } while (i <= 2);
    }
}
```

Output: