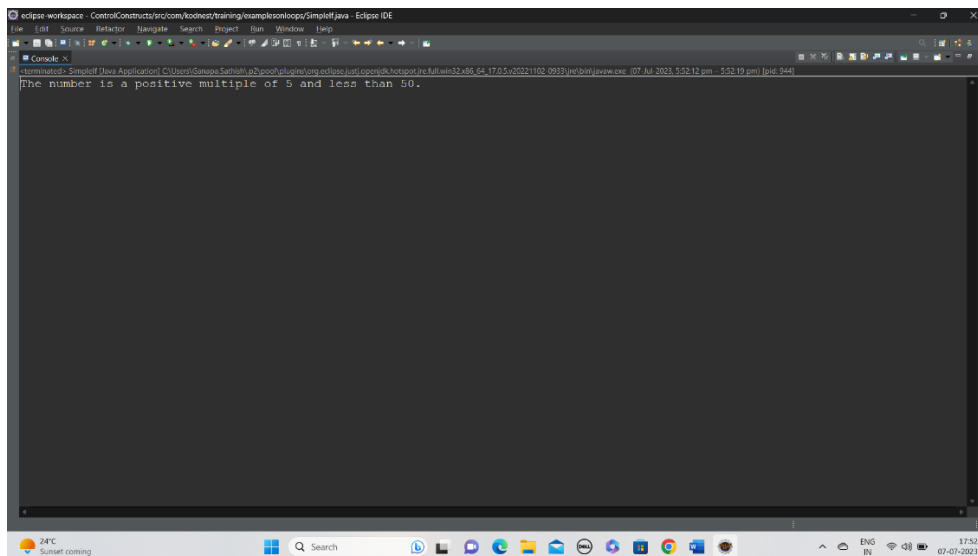# Assignment

G.Sathish

1)Is Nested Simple If permitted ?

A: Yes , Permitted

Example:

```
class SimpleIf {
 public static void main(String[] args) {
    int num = 25;
    if (num > 0)
     {
       if (num % 5 == 0)
        {
          if (num < 50)
           {
              System.out.println("The number is a positive multiple of 5 and less
than 50.");
           }
        }
     }
  }
}
```

Output:

2)Is Nested if else permitted ?
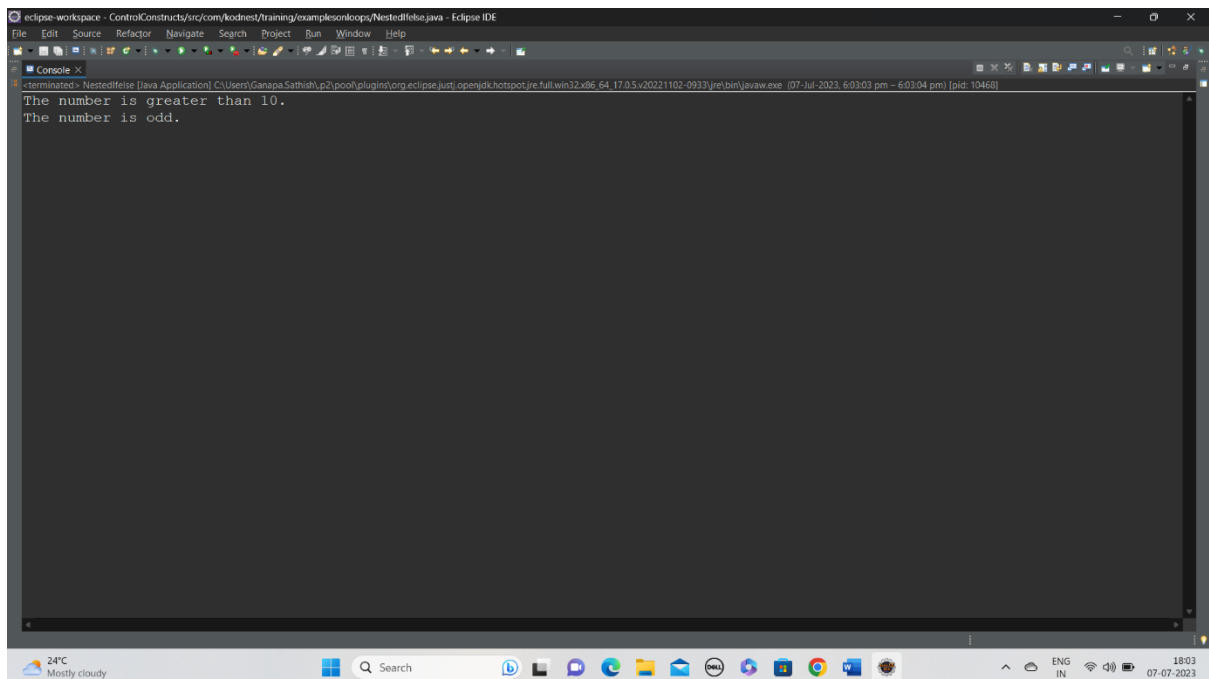
A: Yes, Permitted

Example:

```java
class NestedIfelse {
    public static void main(String[] args) {
     int num = 15;
    if (num > 10)
      {
      System.out.println("The number is greater than 10.");

        if (num % 2 == 0)
        {

         System.out.println("The number is even.");
        }
        else
        {
```

```java
                System.out.println("The number is odd.");
                }
            }
        else
        {
            System.out.println("The number is not greater than 10.");
        }
    }


}
```
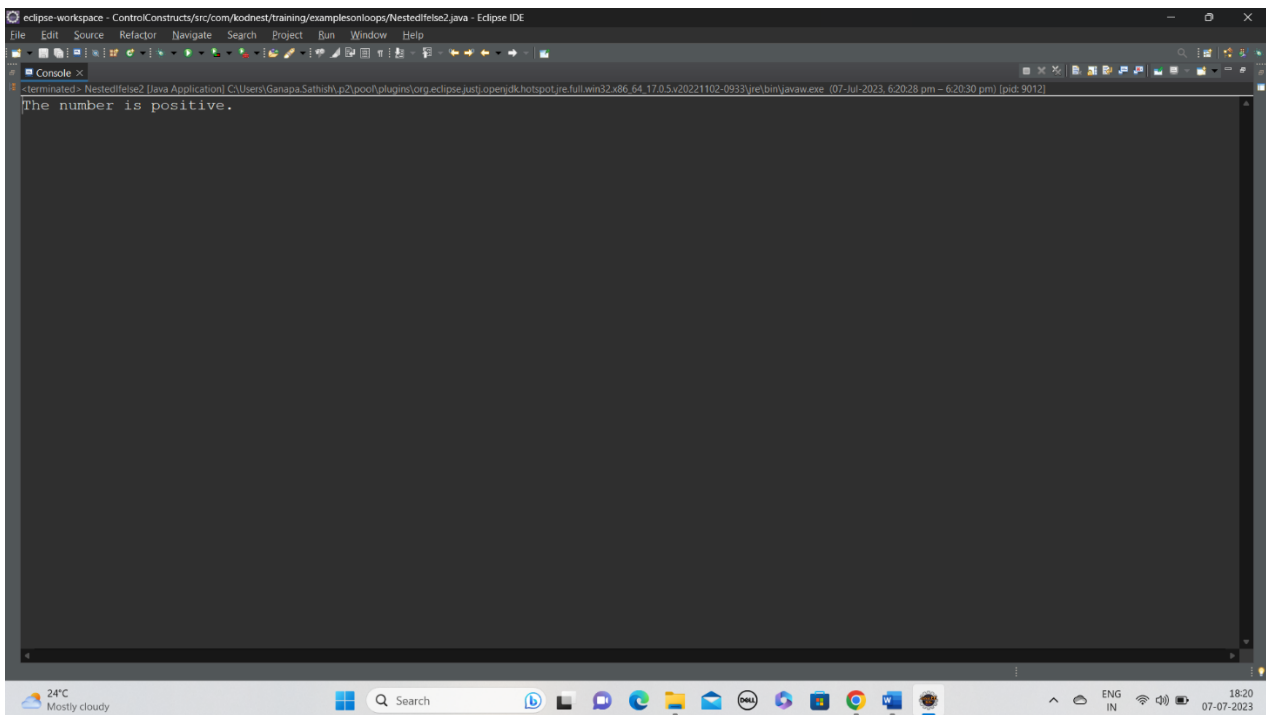
Output:

3) Is Nested if else permitted ?

A: Yes, Permitted

Example:

```java
class NestedIfelse2 {

    public static void main(String[] args) {
        int num = 70;

    if (num > 0)
    {
      System.out.println("The number is positive.");
    }
    else
    {
      if (num < 0)
      {
        System.out.println("The number is negative.");
      } else
      {
        System.out.println("The number is zero.");
      }
    }
}
```
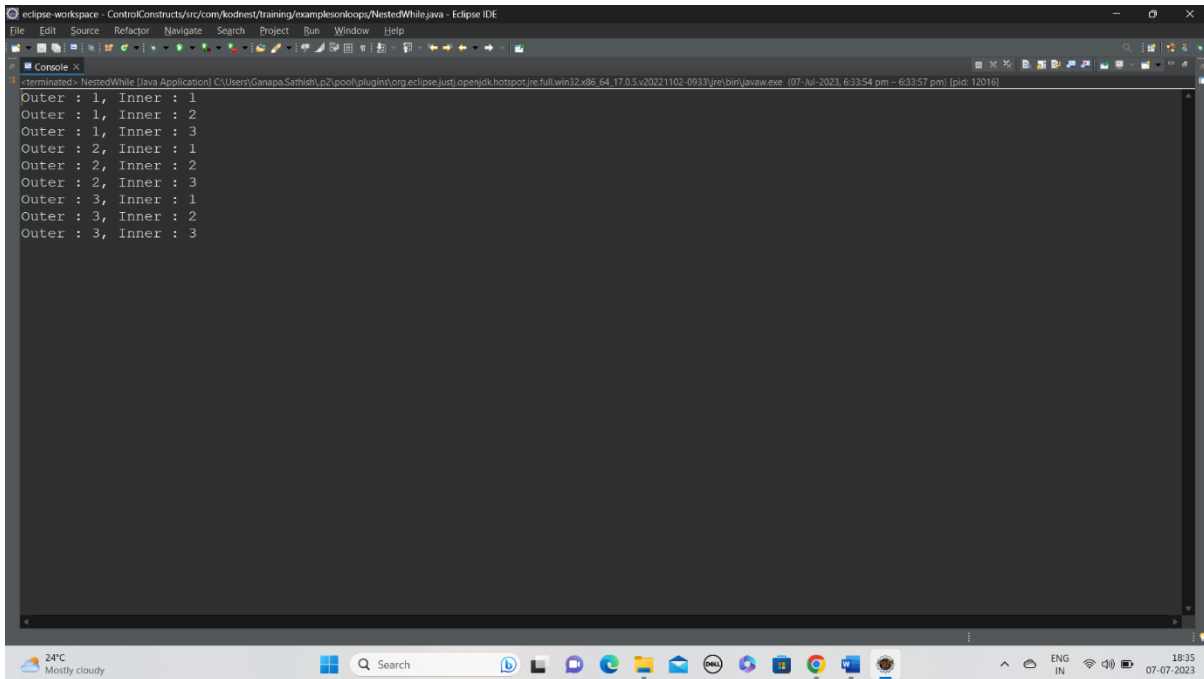
Output:

4.Nested While

Example:

```java
class NestedWhile {
public static void main(String[] args) {
int outer = 1;
while (outer <= 3)
 {
    int inner = 1;
     while (inner <= 3)
        {
               System.out.println("Outer : " + outer + ", Inner : " + inner);
                 inner++;
           }
            outer++;
```

```
        }
    }
}
```

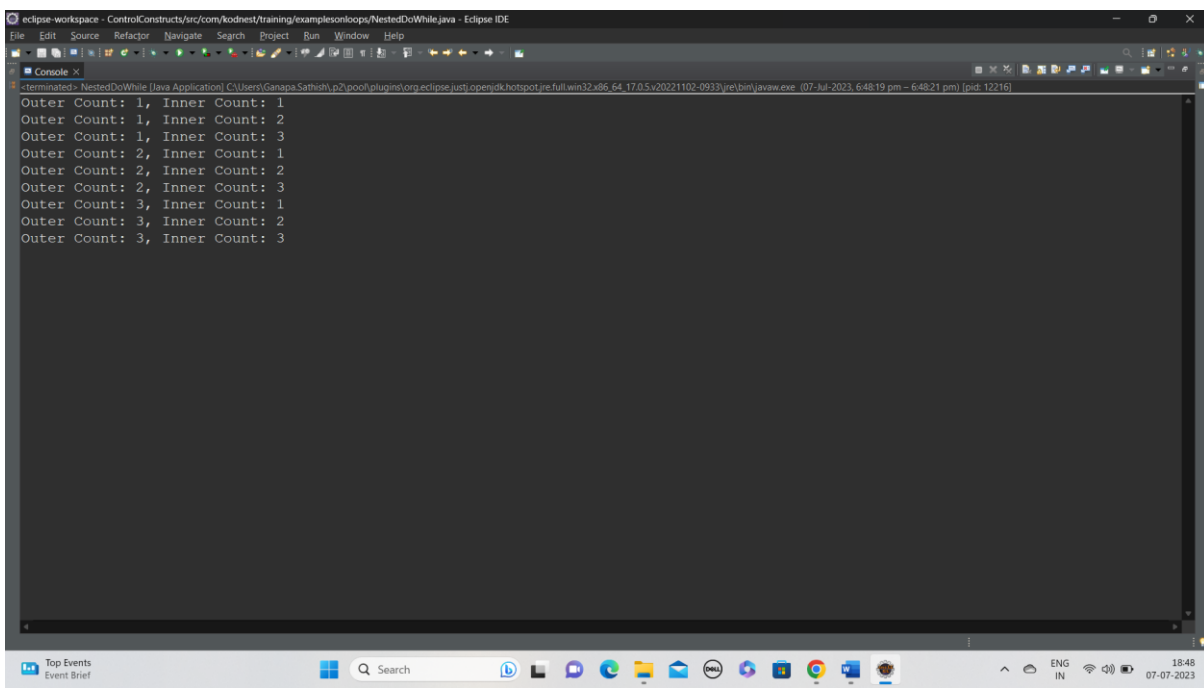**Output:**

5. Nested Do While

Example:

```
class NestedDoWhile {
public static void main(String[] args) {
int outerCount = 1;
do
{
    int innerCount = 1;
      do {
          System.out.println("Outer Count: " + outerCount + ", Inner Count: " +
innerCount);
```

```
    innerCount++;
  } while (innerCount <= 3);
    outerCount++;
} while (outerCount <= 3);
 }
}
```

Output: