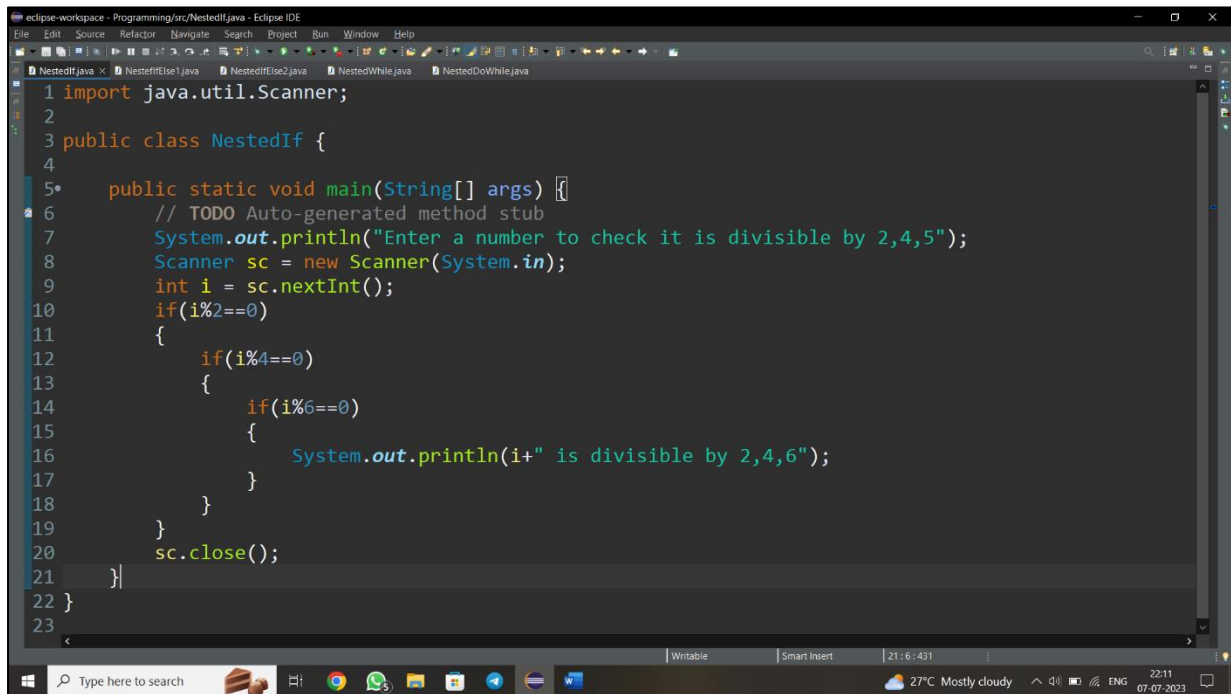
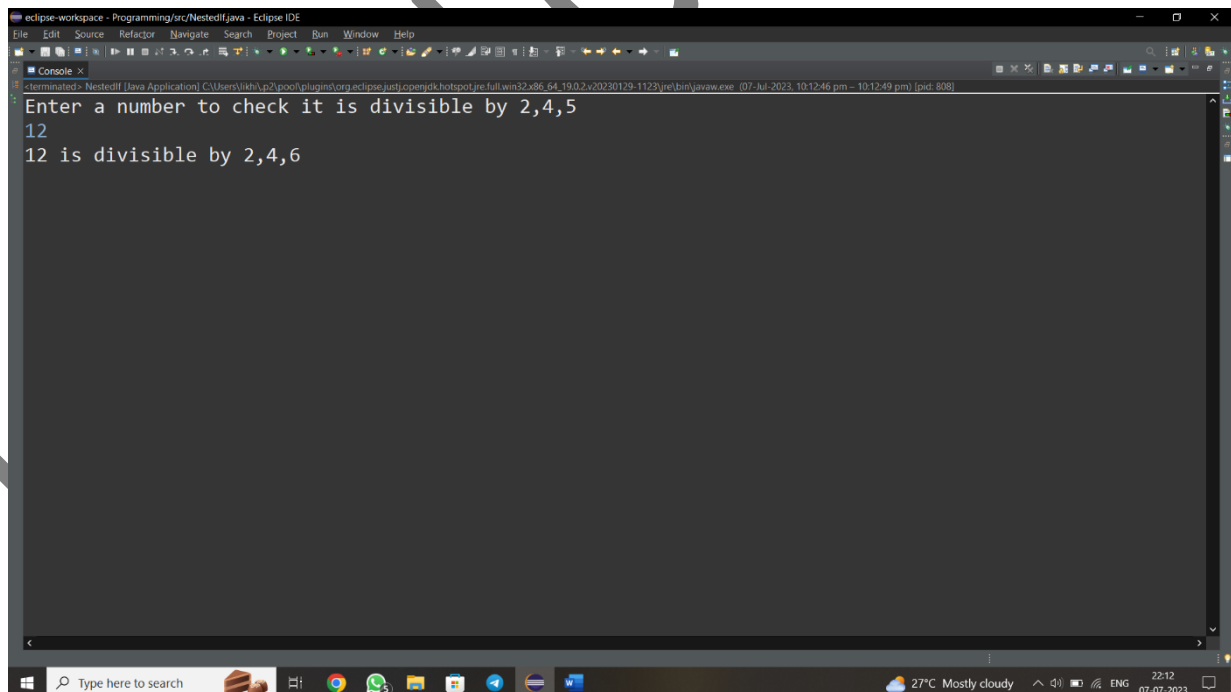


Is Nested Simple If Permitted?

Yes nested simple if is permitted in programming. The below example shows an example of nested simple if statement.



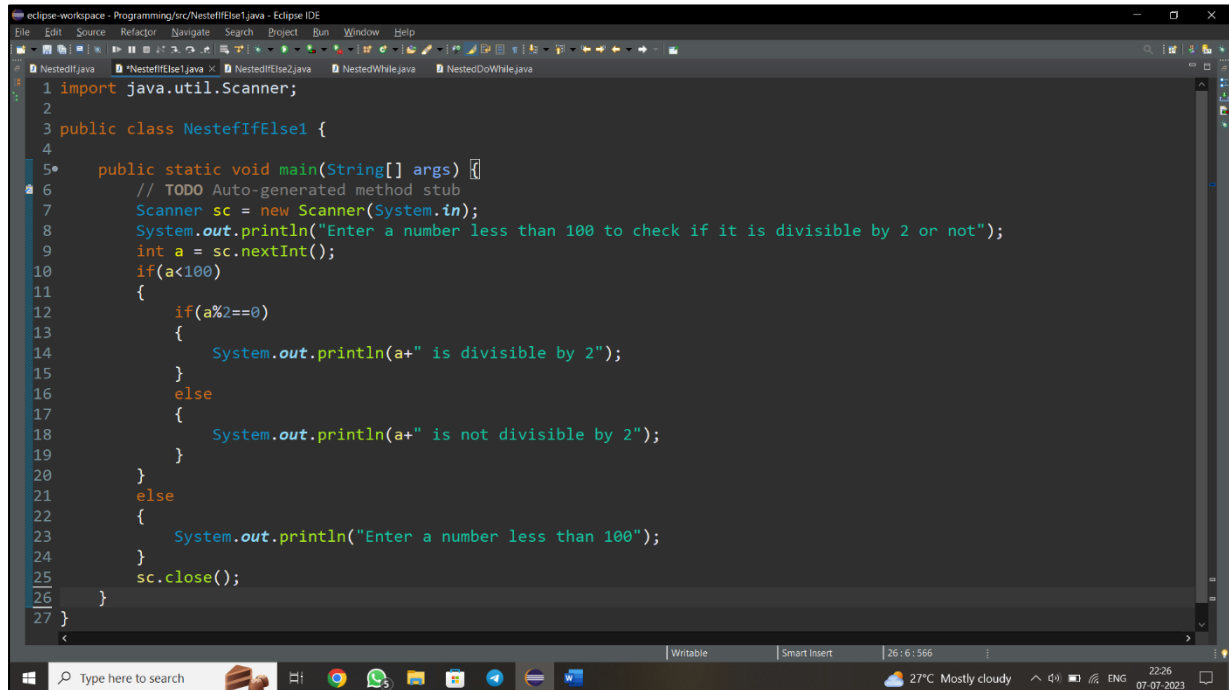
```
1 import java.util.Scanner;
2
3 public class NestedIf {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         System.out.println("Enter a number to check it is divisible by 2,4,5");
8         Scanner sc = new Scanner(System.in);
9         int i = sc.nextInt();
10        if(i%2==0)
11        {
12            if(i%4==0)
13            {
14                if(i%6==0)
15                {
16                    System.out.println(i+" is divisible by 2,4,6");
17                }
18            }
19        }
20        sc.close();
21    }
22 }
23
```



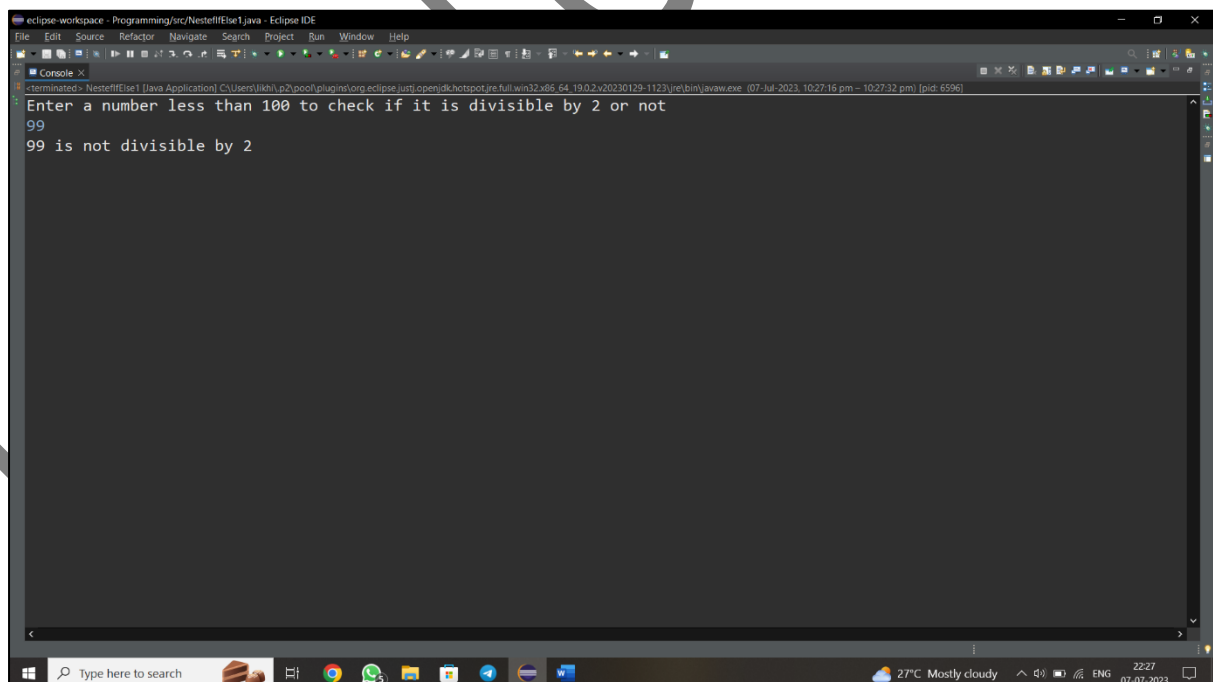
```
Enter a number to check it is divisible by 2,4,5
12
12 is divisible by 2,4,6
```

Is Nested If Else Permitted?

Yes nested if else is permitted in programming. The below example shows an example of nested if else statement.



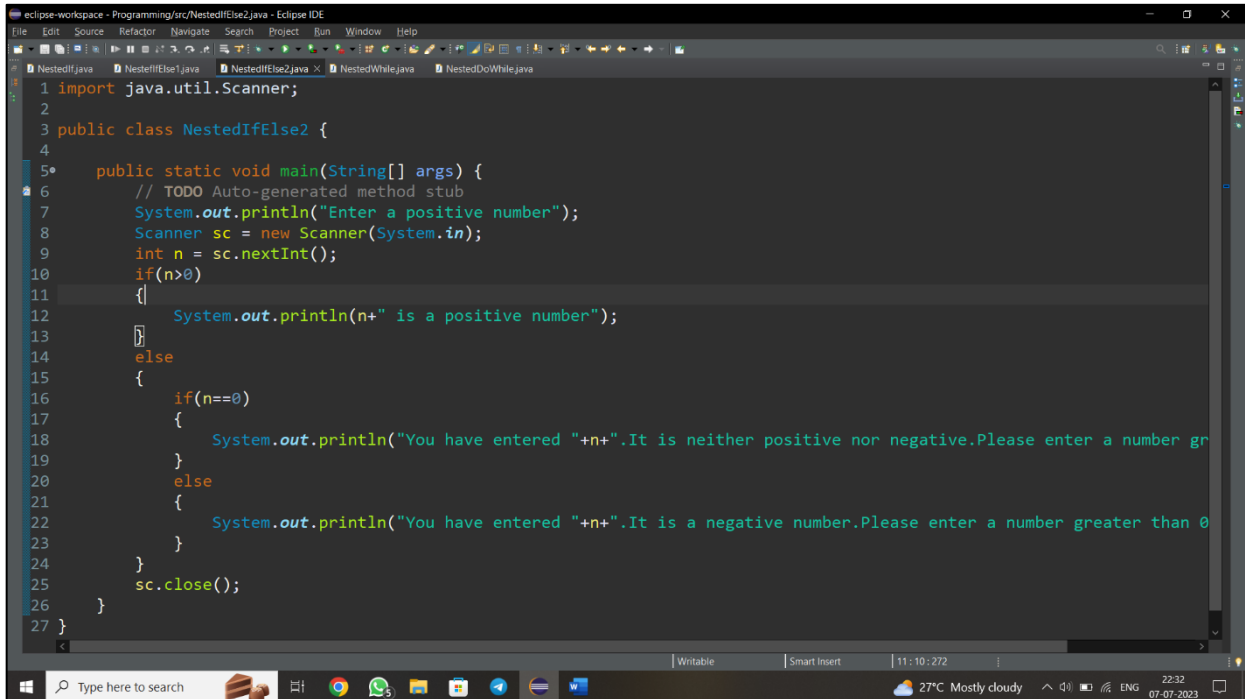
```
1 import java.util.Scanner;
2
3 public class NestefIfElse1 {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner sc = new Scanner(System.in);
8         System.out.println("Enter a number less than 100 to check if it is divisible by 2 or not");
9         int a = sc.nextInt();
10        if(a<100)
11        {
12            if(a%2==0)
13            {
14                System.out.println(a+" is divisible by 2");
15            }
16            else
17            {
18                System.out.println(a+" is not divisible by 2");
19            }
20        }
21        else
22        {
23            System.out.println("Enter a number less than 100");
24        }
25        sc.close();
26    }
27 }
```



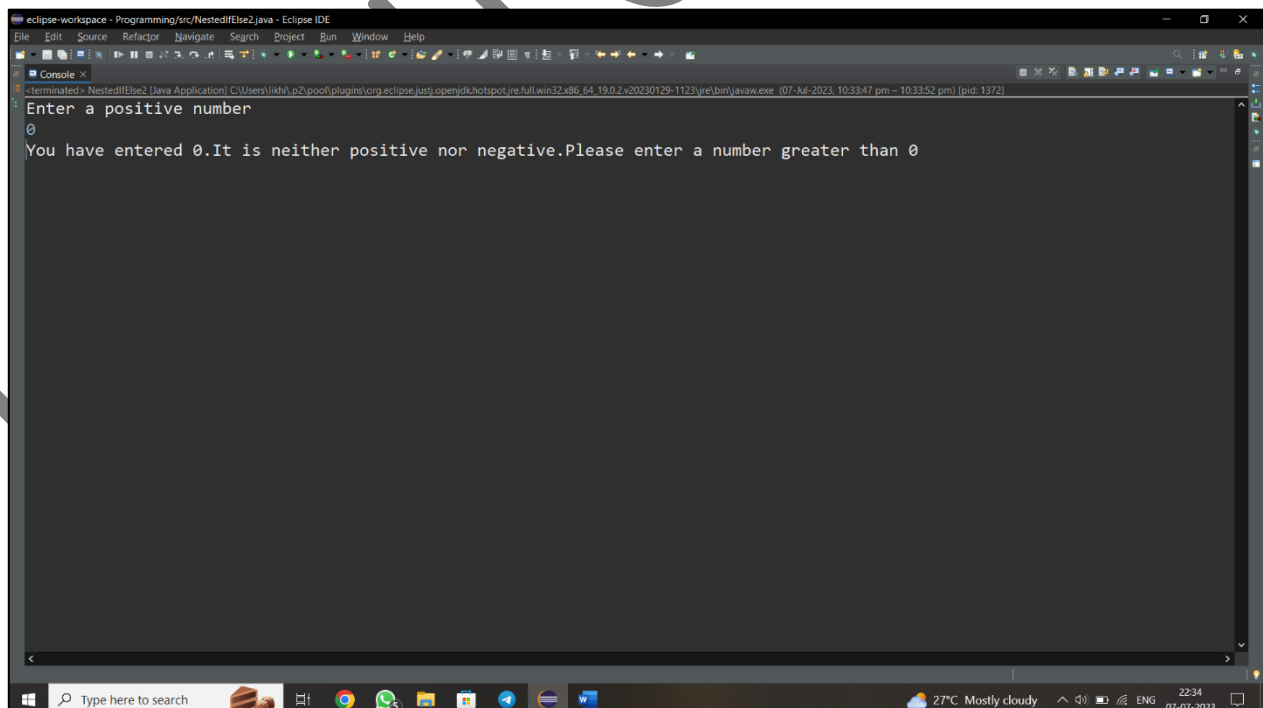
```
Enter a number less than 100 to check if it is divisible by 2 or not
99
99 is not divisible by 2
```

Is Nested If Else Permitted?

Yes nested if else is permitted in programming. The below example shows an example of nested if else statement.



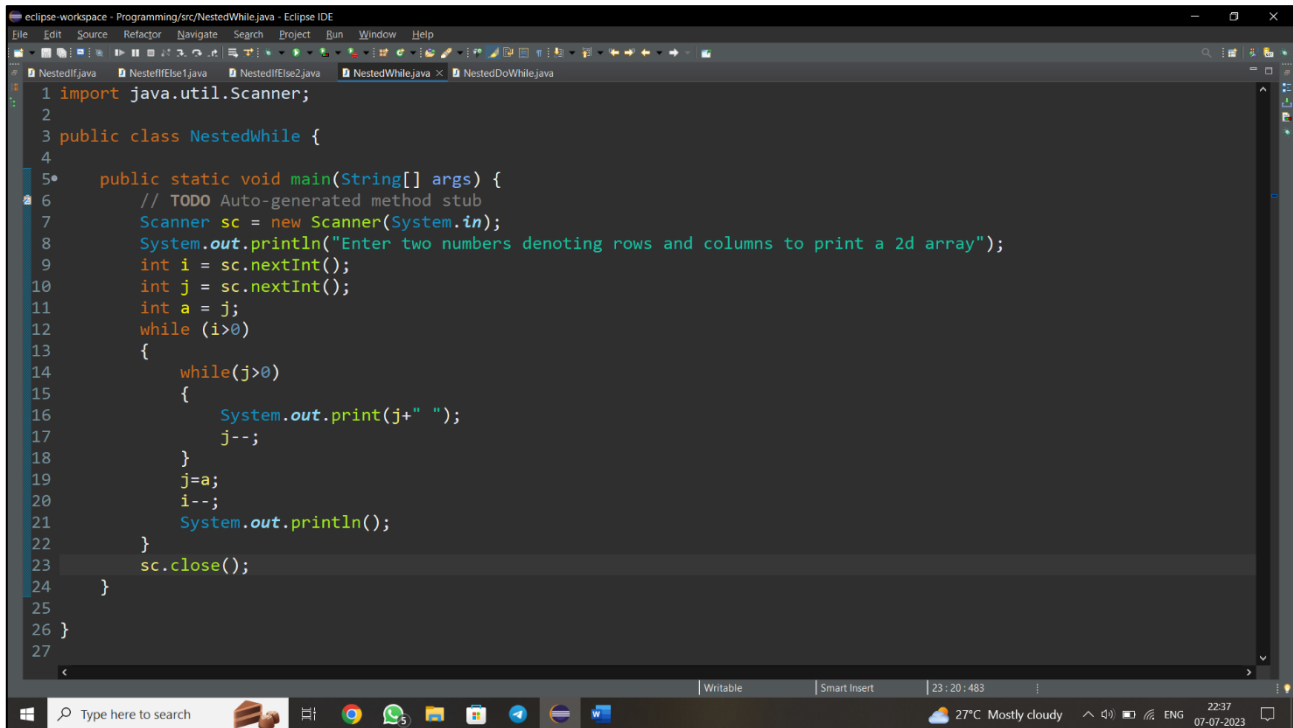
```
1 import java.util.Scanner;
2
3 public class NestedIfElse2 {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         System.out.println("Enter a positive number");
8         Scanner sc = new Scanner(System.in);
9         int n = sc.nextInt();
10        if(n>0)
11        {
12            System.out.println(n+" is a positive number");
13        }
14        else
15        {
16            if(n==0)
17            {
18                System.out.println("You have entered "+n+".It is neither positive nor negative.Please enter a number greater than 0");
19            }
20            else
21            {
22                System.out.println("You have entered "+n+".It is a negative number.Please enter a number greater than 0");
23            }
24        }
25        sc.close();
26    }
27 }
```



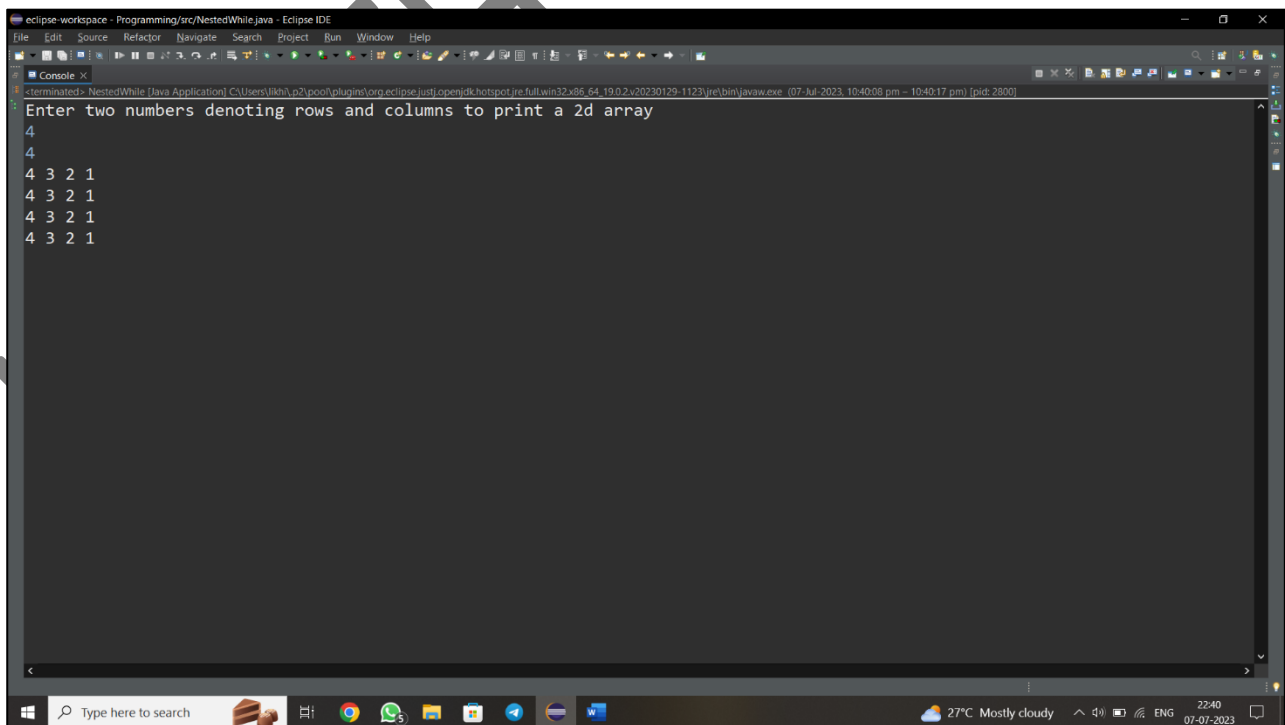
```
<terminated> NestedIfElse2 [Java Application] C:\Users\likhi\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.19.0.2.v20230129-1123\jre\bin\javaw.exe (07-Jul-2023, 10:33:47 pm) [pid: 1372]
Enter a positive number
0
You have entered 0.It is neither positive nor negative.Please enter a number greater than 0
```

Is Nested While Permitted?

Yes nested while is permitted in programming. The below example shows an example of nested while statement.



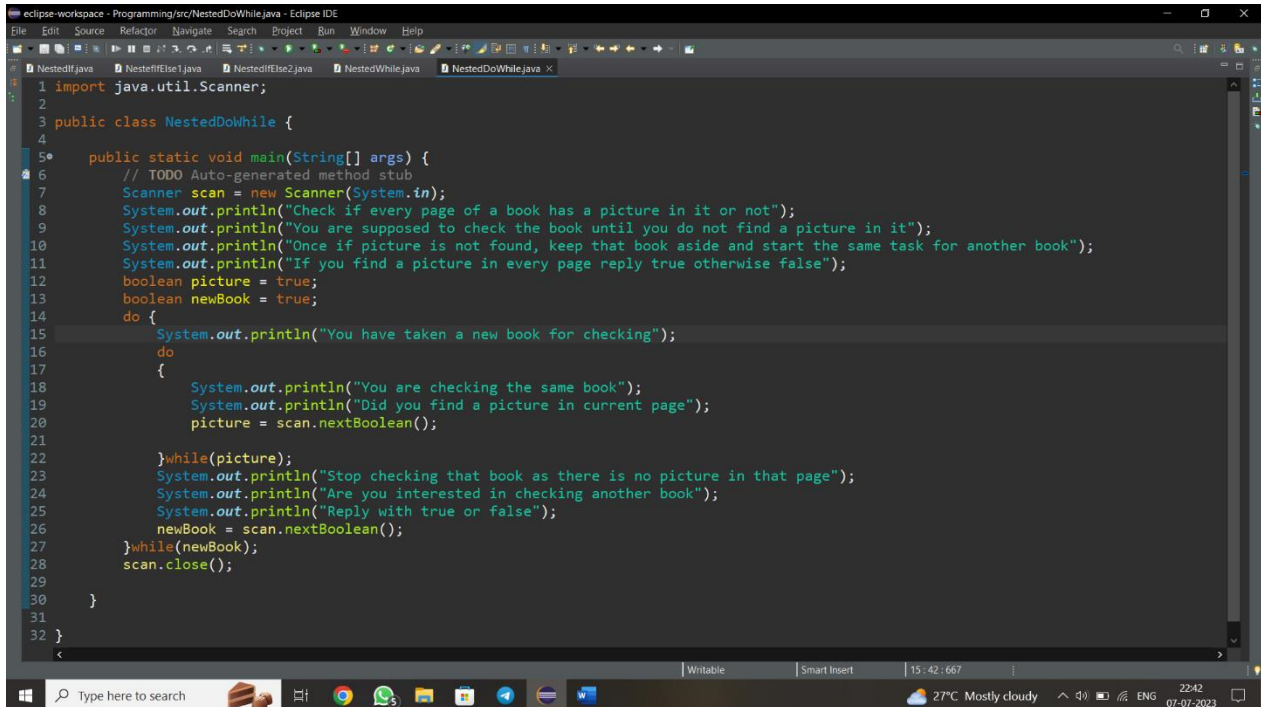
```
1 import java.util.Scanner;
2
3 public class NestedWhile {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner sc = new Scanner(System.in);
8         System.out.println("Enter two numbers denoting rows and columns to print a 2d array");
9         int i = sc.nextInt();
10        int j = sc.nextInt();
11        int a = j;
12        while (i>0)
13        {
14            while(j>0)
15            {
16                System.out.print(j+" ");
17                j--;
18            }
19            j=a;
20            i--;
21            System.out.println();
22        }
23        sc.close();
24    }
25
26 }
27
```



```
Enter two numbers denoting rows and columns to print a 2d array
4
4 3 2 1
4 3 2 1
4 3 2 1
4 3 2 1
```

Is Nested Do While Permitted?

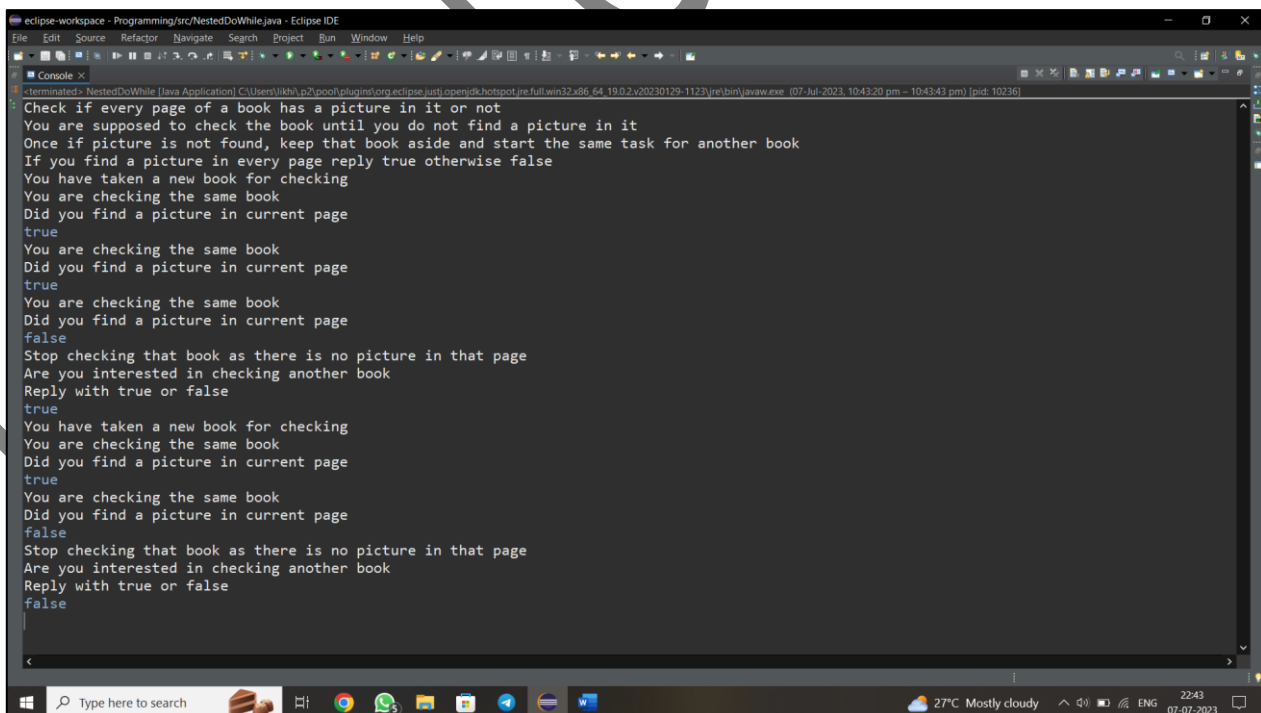
Yes nested do while is permitted in programming. The below example shows an example of nested do while statement.



```

1 import java.util.Scanner;
2
3 public class NestedDoWhile {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner scan = new Scanner(System.in);
8         System.out.println("Check if every page of a book has a picture in it or not");
9         System.out.println("You are supposed to check the book until you do not find a picture in it");
10        System.out.println("Once if picture is not found, keep that book aside and start the same task for another book");
11        System.out.println("If you find a picture in every page reply true otherwise false");
12        boolean picture = true;
13        boolean newBook = true;
14        do {
15            System.out.println("You have taken a new book for checking");
16            do {
17                System.out.println("You are checking the same book");
18                System.out.println("Did you find a picture in current page");
19                picture = scan.nextBoolean();
20            }while(picture);
21            System.out.println("Stop checking that book as there is no picture in that page");
22            System.out.println("Are you interested in checking another book");
23            System.out.println("Reply with true or false");
24            newBook = scan.nextBoolean();
25        }while(newBook);
26        scan.close();
27    }
28 }
29
30
31
32

```



```

<terminated> NestedDoWhile [Java Application] C:\Users\likhi\AppData\Local\Temp\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.19.0.2.v20230129-1123\jre\bin\javaw.exe - [07-Jul-2023, 10:43:20 pm - 10:43:43 pm] [pid: 10236]
Check if every page of a book has a picture in it or not
You are supposed to check the book until you do not find a picture in it
Once if picture is not found, keep that book aside and start the same task for another book
If you find a picture in every page reply true otherwise false
You have taken a new book for checking
You are checking the same book
Did you find a picture in current page
true
You are checking the same book
Did you find a picture in current page
true
You are checking the same book
Did you find a picture in current page
false
Stop checking that book as there is no picture in that page
Are you interested in checking another book
Reply with true or false
true
You have taken a new book for checking
You are checking the same book
Did you find a picture in current page
true
You are checking the same book
Did you find a picture in current page
false
Stop checking that book as there is no picture in that page
Are you interested in checking another book
Reply with true or false
false

```