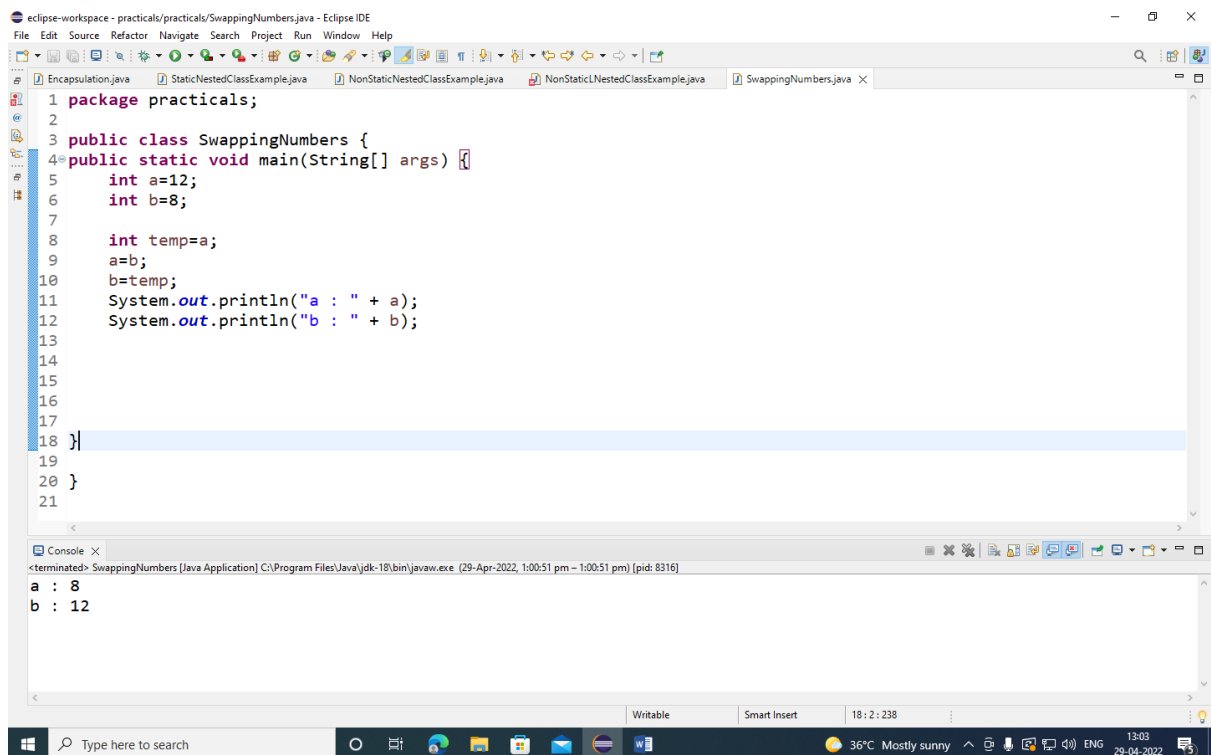


1. Write a program in Java of Swapping of two numbers using third variable and without third variable.

```
package practicals;
```

```
public class SwappingNumbers {  
    public static void main(String[] args) {  
        int a=12;  
        int b=8;  
  
        int temp=a;  
        a=b;  
        b=temp;  
        System.out.println("a : " + a);  
        System.out.println("b : " + b);  
    }  
}
```



The screenshot shows the Eclipse IDE with the following code in the editor:

```
1 package practicals;  
2  
3 public class SwappingNumbers {  
4     public static void main(String[] args) {  
5         int a=12;  
6         int b=8;  
7  
8         int temp=a;  
9         a=b;  
10        b=temp;  
11        System.out.println("a : " + a);  
12        System.out.println("b : " + b);  
13    }  
14 }  
15  
16  
17  
18 }  
19  
20  
21
```

The console output at the bottom shows:

```
a : 8  
b : 12
```

The status bar at the bottom indicates the file is writable, smart insert is on, and the cursor is at line 18, column 238. The system tray shows the date and time as 13:03 on 29-04-2022.

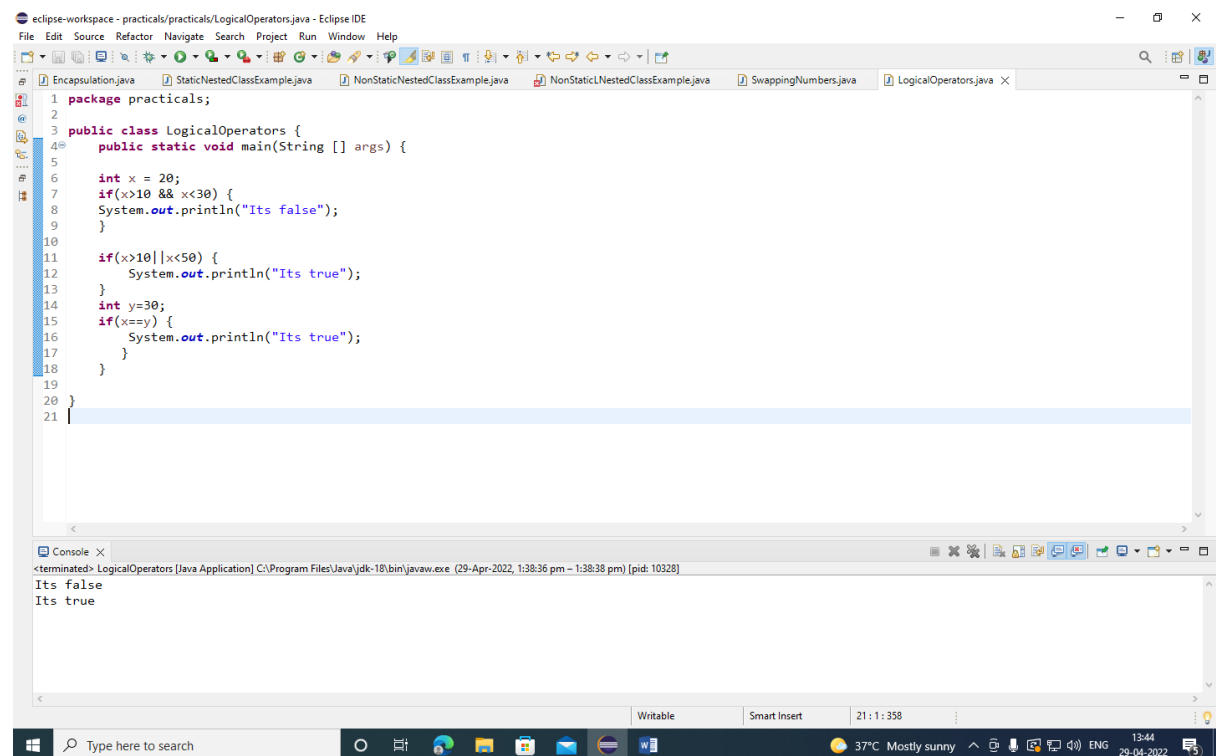
2. Write a program in Java of Program with Logical AND, OR, NOT Operators

```
package practicals;

public class LogicalOperators {
    public static void main(String [] args) {

        int x = 20;
        if(x>10 && x<30) {
            System.out.println("Its false");
        }

        if(x>10||x<50) {
            System.out.println("Its true");
        }
        int y=30;
        if(x==y) {
            System.out.println("Its true");
        }
    }
}
```



The screenshot shows the Eclipse IDE interface. The main editor window displays the Java code for the `LogicalOperators` class, which is part of the `practicals` package. The code includes a `main` method that tests logical operators: `&&` (AND), `||` (OR), and `==` (equality). The output of the program is visible in the console window at the bottom, showing the messages "Its false" and "Its true".

```
eclipse-workspace - practicals/practicals/LogicalOperators.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
1 package practicals;
2
3 public class LogicalOperators {
4     public static void main(String [] args) {
5
6         int x = 20;
7         if(x>10 && x<30) {
8             System.out.println("Its false");
9         }
10
11         if(x>10||x<50) {
12             System.out.println("Its true");
13         }
14         int y=30;
15         if(x==y) {
16             System.out.println("Its true");
17         }
18     }
19 }
20
21

Console X
<terminated> LogicalOperators [Java Application] C:\Program Files\Java\jdk-18\bin\javaw.exe (29-Apr-2022, 1:38:36 pm) [pid: 10328]
Its false
Its true
```

3. Write a program in Java of Print ASCII Value in Java: Assigning a Variable to the int Variable and Using Type-Casting

```
package practicals;
```

```
public class TypeCasting {
```

```
    public static void main(String[] args) {  
        char ch1 = 'a';  
        char ch2 = 'c';  
        int ascii1 = ch1;  
        int ascii2 = ch2;  
        System.out.println("the value of ch1 : " +ch1);  
        System.out.println("the value of ch2 : " +ch2);  
    }
```

```
}
```

