

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

```
package com;

public class Swapping {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int a = 20;           int b = 30;
        System.out.println("swapping using third variable");
        System.out.println("before swap");
        System.out.println("first value is " +a);
        System.out.println("second value is "+b);

        int result = a;
        a = b;
        b = result;
        System.out.println("after swap");
        System.out.println("first value is "+a);
        System.out.println("second value is "+b);

        int val1 = 10;
        int val2 = 5;
        System.out.println("swapping two values without using
third variable");
        System.out.println("before swap "+ a + " " +b);

        a = a + b;
        b = a - b;
        a = a - b;
        System.out.println("after swap "+a + " " +b);

    }
}
```

The screenshot shows the Eclipse IDE interface with a Java project named 'Swapping.java' open. The code implements two methods for swapping integers: one using a third variable and another without it. The 'Console' view displays the execution results, showing the initial values (20 and 30), the swap process, and the final swapped values (30 and 20). A video player window in the bottom right corner shows a presentation slide with the letters 'MB'.

```
1 package com;
2
3 public class Swapping {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         int a = 20;
8         int b = 30;
9         System.out.println("swapping using third variable");
10        System.out.println("before swap");
11        System.out.println("first value is " +a);
12        System.out.println("second value is "+b);
13
14        int result = a;
15        a = b;
16        b = result;
17        System.out.println("after swap");
18        System.out.println("first value is "+a);
19        System.out.println("second value is "+b);
20
21        int val1 = 10;
22        int val2 = 5;
23        System.out.println("swapping two values without using third variable");
24        System.out.println("before swap "+ a + " " +b);
25
26        a = a + b;
27        b = a - b;
28        a = a - b;
29        System.out.println("after swap "+a + " " +b);
30    }
31 }
```

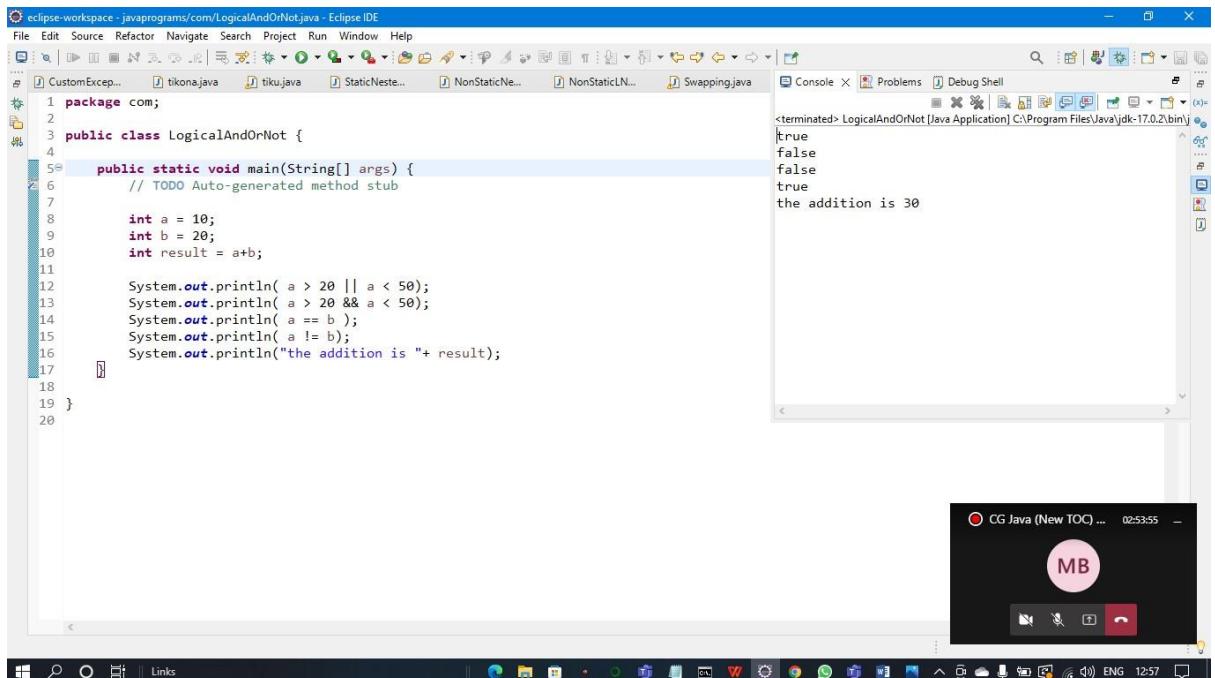
2. Write a program in Java of Program with Logical AND, OR, NOT Operator.

```
package com;

public class LogicalAndOrNot {
    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int a = 10;
        int b = 20;
        int result = a+b;

        System.out.println( a > 20 || a < 50);
        System.out.println( a > 20 && a < 50);
        System.out.println( a == b );
        System.out.println( a != b );
        System.out.println("the addition is "+ result);
    }
}
```



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

```
package com;

public class AsciiExp {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        char value = 'm';
        int result = value;
        System.out.println(result);
    }
}
```

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** eclipse-workspace - javaprograms/com/AsciiExp.java - Eclipse IDE
- Menu Bar:** File Edit Source Refactor Navigate Search Project Run Window Help
- Toolbar:** Standard Eclipse toolbar with various icons for file operations.
- Project Explorer:** Shows a single project named "tikonjava".
- Java Editor:** Displays the Java code for AsciiExp.java:

```
1 package com;
2
3 public class AsciiExp {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         char value = 'm';
8         int result = value;
9         System.out.println(result);
10    }
11
12 }
```
- Console View:** Shows the output of the Java application:

```
<terminated> AsciiExp [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe
109
```
- Bottom Status Bar:** Shows the Windows taskbar with various pinned icons and the system clock indicating it's 13:16.