

```
1 package lab02;
2
3 import java.util.Scanner;
4
5
6 // int max = Math.max(n1, Math.max(n2, n3)); this is SO MUCH EASIER.....
7
8 public class BiggestOfThree {
9
10     public static void main(String[] args) {
11         Scanner input = new Scanner(System.in);
12
13         System.out.println("Enter 3 numbers to find the largest:");
14         int n1 = input.nextInt();
15         int n2 = input.nextInt();
16         int n3 = input.nextInt();
17
18         System.out.println("The numbers entered were: " + n1 + ", " + n2 + ", " + n3 );
19
20         System.out.println("
21             + "Press 1 for code logic written using if only\r\n"
22             + "Press 2 for code logic written using nested if\r\n"
23             + "Press 3 for code logic written using if else only\r\n"
24             + "Press 4 for code logic written using else if ladder ");
25         System.out.println("Enter your choice:");
26         int choice = input.nextInt();
27         System.out.println("your choice: " + choice);
28         if(choice == 1) {
29             System.out.println("code logic written using if only");
30             int max = 0;
31             if (n1 >= n2 && n1 >= n3)
32                 max = n1;
33             if (n2 >= n1 && n2 >= n3)
34                 max = n2;
35             if (n3 >= n1 && n3 >= n2)
36                 max = n3;
37             System.out.println("Largest number is " + max);
38         } else if (choice == 2) {
39             System.out.println("code logic written using nested if");
40             int max = 0;
41
42             if (n1 >= n2)
43                 if (n1 >= n3)
44                     max = n1;
45             if (n2 >= n1)
46                 if (n2 >= n3)
47                     max = n2;
48             if (n3 >= n1)
49                 if (n3 >= n2)
50                     max = n3;
51             System.out.println("Largest number is " + max);
52
53         } else if (choice == 3) {
54             System.out.println("code logic using if else only");
55             int max = 0;
56
57             if (n1 >= n2 && n1 >= n3)
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58         max = n1;
59     else {
60         if (n2 >= n1 && n2 >= n3)
61             max = n2;
62         else
63             max = n3;
64     }
65
66     System.out.println("Largest number is " + max);
67
68 } else if (choice == 4) {
69     System.out.println("code logic using else if ladder");
70     int max = 0;
71     if (n1 >= n2 && n1 >= n3)
72         max = n1;
73     else if (n2 >= n1 && n2 >= n3)
74         max = n2;
75     else if (n3 >= n1 && n3 >= n1)
76         max = n3;
77     System.out.println("Largest number is " + max);
78
79 } else {
80     System.out.println("invalid choice womp womp");
81 }
82
83 }
84
85 }
86
```