

**1. Write a Scala program to check two given integers, and return true if one of them is 30 or if their sum is 30**

CODE:-

```
object scala_basic
{
  def test(x:Int, y:Int) :
Boolean = { x == 30 || y == 30 || x + y == 30
}
  def main(args: Array[String]):
Unit = {
println("Result: " + test(30, 0));
println("Result: " + test(25, 5));
println("Result: " + test(30, 20));
println("Result: " + test(25, 20));
}
}
```



The screenshot shows a Scala IDE interface. The top bar includes the filename 'HelloWorld.scala', the username '3zku6wkgc', and buttons for 'NEW', 'SCALA', 'RUN', and a settings icon. The main editor area displays the Scala code from the previous block, with line numbers 1 through 14. The right-hand panel is divided into two sections: 'STDIN' with the text 'Input for the program ( Optional )' and 'Output' showing the results of the program execution: 'Result: true', 'Result: true', 'Result: true', and 'Result: false'.

```
1 object scala_basic {
2   def test(x:Int, y:Int) : Boolean =
3   {
4     x == 30 || y == 30 || x + y == 30
5   }
6
7   def main(args: Array[String]): Unit = {
8     println("Result: " + test(30, 0));
9     println("Result: " + test(25, 5));
10    println("Result: " + test(30, 20));
11    println("Result: " + test(25, 20));
12  }
13 }
14
```

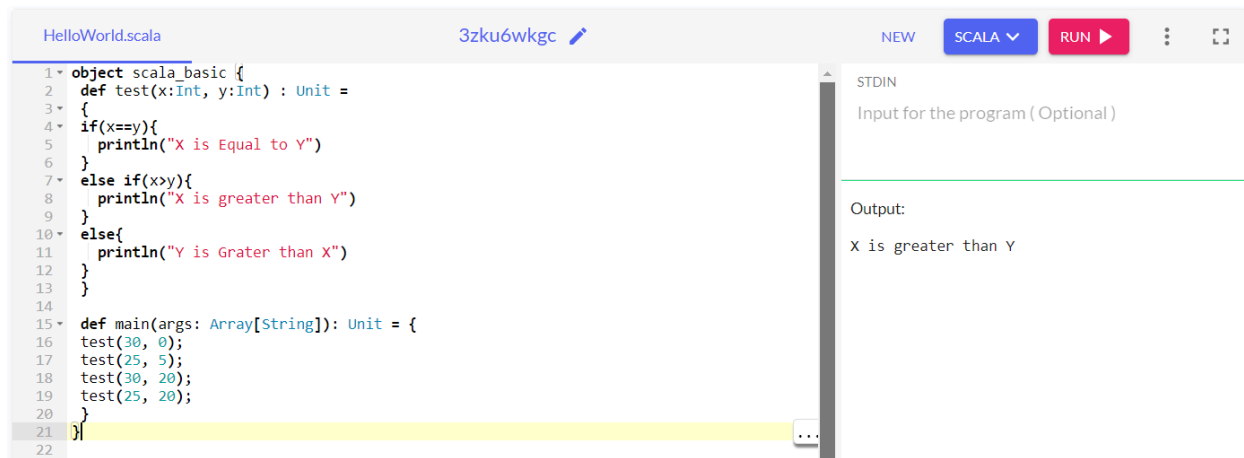
STDIN  
Input for the program ( Optional )

Output:  
Result: true  
Result: true  
Result: true  
Result: false

## 2. Check if X is Greater or Y

CODE:-

```
object scala_basic {  
  def test(x:Int, y:Int) : Unit =  
  {  
    if(x==y){  
      println("X is Equal to Y")  
    }  
    else if(x>y){  
      println("X is greater than Y")  
    }  
    else{  
      println("Y is Grater than X")  
    }  
  }  
}  
  
def main(args: Array[String]): Unit = {  
  test(30, 0);  
  test(25, 5);  
  test(30, 20);  
  test(25, 20);  
}
```



The screenshot shows a Scala IDE interface. The top bar includes the filename 'HelloWorld.scala', the username '3zku6wkgc', and buttons for 'NEW', 'SCALA', 'RUN', and a settings icon. The main editor area displays the Scala code from the previous block, with line numbers 1 through 22. The code defines an object 'scala\_basic' with a 'test' function and a 'main' function. The 'main' function calls 'test' with four different pairs of integers: (30, 0), (25, 5), (30, 20), and (25, 20). The output pane on the right shows 'STDIN' with 'Input for the program ( Optional )' and 'Output:' with the result 'X is greater than Y'.

```
1 object scala_basic {  
2   def test(x:Int, y:Int) : Unit =  
3   {  
4     if(x==y){  
5       println("X is Equal to Y")  
6     }  
7     else if(x>y){  
8       println("X is greater than Y")  
9     }  
10    else{  
11      println("Y is Grater than X")  
12    }  
13  }  
14 }  
15 def main(args: Array[String]): Unit = {  
16   test(30, 0);  
17   test(25, 5);  
18   test(30, 20);  
19   test(25, 20);  
20 }  
21 }  
22
```

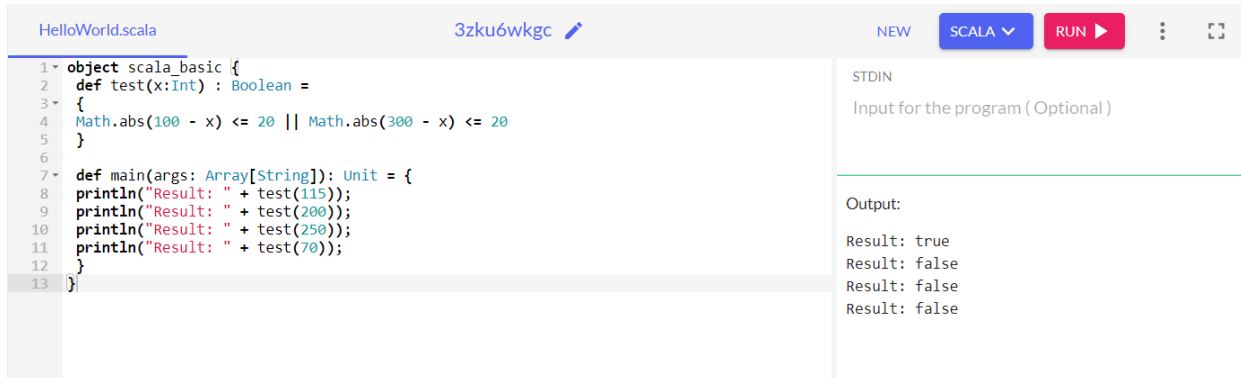
STDIN  
Input for the program ( Optional )

Output:  
X is greater than Y

**3. Write a Scala program to check a given integer and return true if it is within 20 of 100 or 300.**

**CODE:-**

```
object scala_basic {  
  def test(x:Int) : Boolean =  
  {  
    Math.abs(100 - x) <= 20 || Math.abs(300 - x) <= 20  
  }  
  def main(args: Array[String]): Unit =  
  {  
    println("Result: " + test(115));  
    println("Result: " + test(200));  
    println("Result: " + test(250));  
    println("Result: " + test(70));  
  }  
}
```



The screenshot shows a Scala IDE interface. The top bar includes the filename 'HelloWorld.scala', a user identifier '3zku6wkgc', and buttons for 'NEW', 'SCALA', 'RUN', and a settings icon. The main editor area displays the Scala code from the previous block, with line numbers 1 through 13. The code defines a function 'test' and a 'main' method that prints results for 115, 200, 250, and 70. To the right of the editor is a panel with 'STDIN' input (empty) and 'Output' showing the results: 'Result: true', 'Result: false', 'Result: false', and 'Result: false'.

```
1 object scala_basic {  
2   def test(x:Int) : Boolean =  
3   {  
4     Math.abs(100 - x) <= 20 || Math.abs(300 - x) <= 20  
5   }  
6  
7   def main(args: Array[String]): Unit = {  
8     println("Result: " + test(115));  
9     println("Result: " + test(200));  
10    println("Result: " + test(250));  
11    println("Result: " + test(70));  
12  }  
13 }
```

STDIN  
Input for the program ( Optional )

Output:  
Result: true  
Result: false  
Result: false  
Result: false