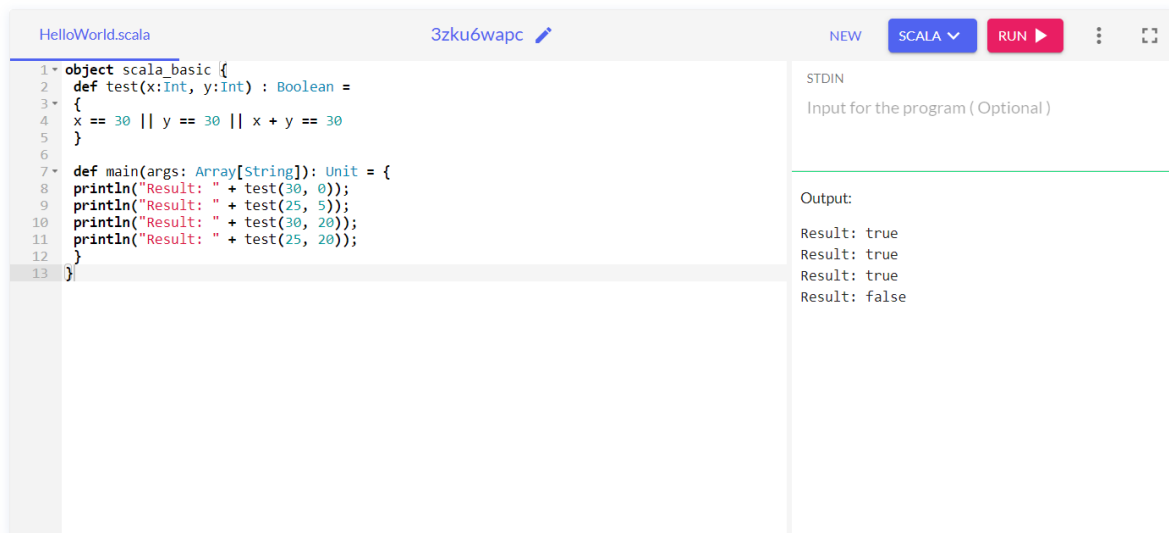


1. Write a Scala program to check two given integers, and return true if one of them is 30 or if their sum is 30

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 window titled 'HelloWorld.scala' with a user '3zku6wapc'. The code is as follows:

```
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 }
```

The IDE has buttons for 'NEW', 'SCALA', and 'RUN'. The 'STDIN' section is empty, and the 'Output' section shows the following results:

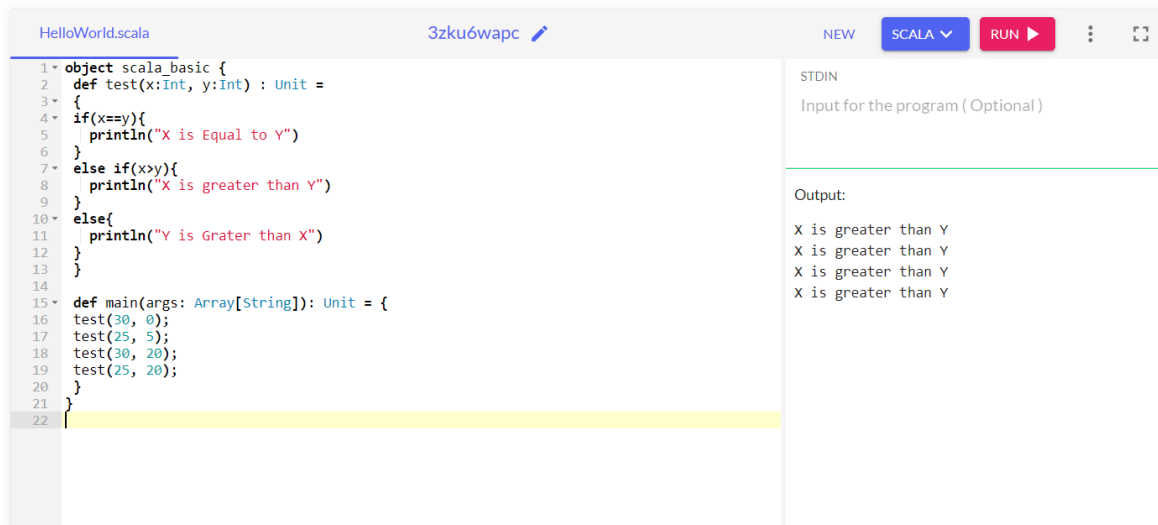
```
Output:
Result: true
Result: true
Result: true
Result: false
```

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 window titled 'HelloWorld.scala' with a file icon and the username '3zku6wapc'. The code editor contains the same Scala code as shown in the previous blocks. To the right of the code editor, there are buttons for 'NEW', 'SCALA' (with a dropdown arrow), and 'RUN' (with a play icon). Below these buttons, there is a section for 'STDIN' with the text 'Input for the program (Optional)'. Further down, there is an 'Output:' section displaying the results of the program execution: 'X is greater than Y', 'X is greater than Y', 'X is greater than Y', and 'X is greater than Y'.

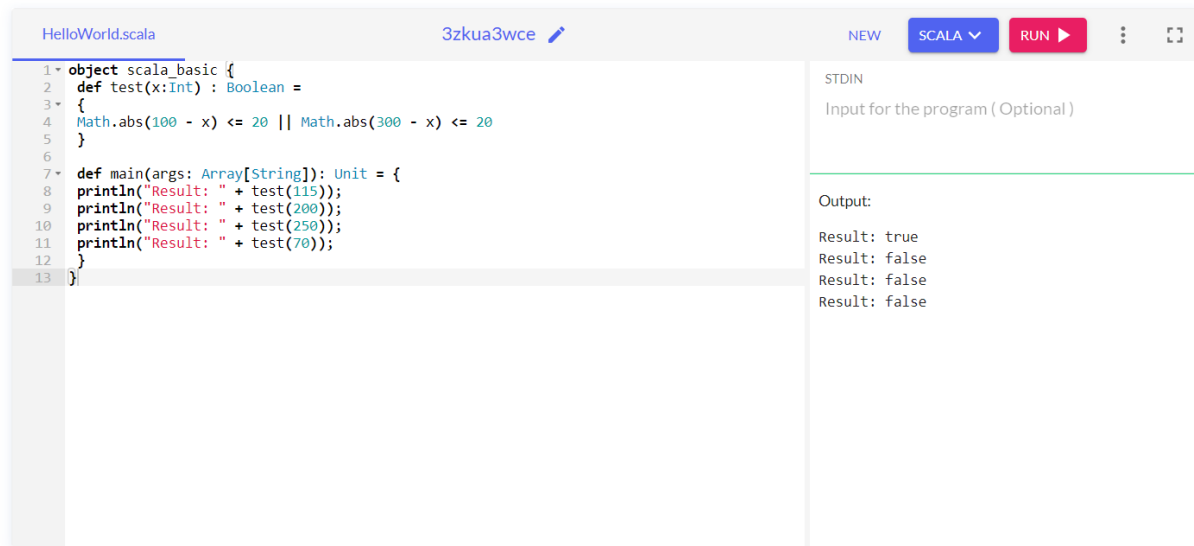
```
1 object scala_basic {  
2   def test(x:Int, y:Int) : Unit =  
3   {  
4     if(x==y){  
5       println("X is Equal to Y")  
6     }  
7     else if(x>y){  
8       println("X is greater than Y")  
9     }  
10    else{  
11      println("Y is Grater than X")  
12    }  
13  }  
14  
15  def main(args: 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
X is greater than Y
X is greater than Y
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.

```
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', the username '3zkua3wce', and buttons for 'NEW', 'SCALA', and 'RUN'. The main editor area contains the Scala code from the previous block. To the right of the editor is a console area with two sections: 'STDIN' for input and 'Output' for the program's results. The output section shows the results of the test function for the given inputs.

```
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

GITHUB LINK :- <https://github.com/KRISHDODHIA/SCALA>