

Name : Mohd Zaid

Usn : 22BTRAD025

1.



The screenshot shows a Scala IDE with a file named 'HelloWorld.scala'. The code defines an object 'scala_basic' with a function 'test' that takes two integers 'x' and 'y' and returns a Boolean. The function 'test' is defined as 'def test(x:Int, y:Int) : Boolean = { x == 30 || y == 30 || x + y == 30 }'. The 'main' function calls 'test' with four different pairs of arguments: (30, 0), (25, 5), (30, 20), and (25, 20). The output of the program is displayed on the right, showing 'Result: true' for the first three calls and 'Result:false' for the last call.

```
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 }
```

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

2.



The screenshot shows a Scala IDE with a file named 'HelloWorld.scala'. The code defines an object 'scala_basic' with a function 'test' that takes two integers 'x' and 'y' and returns a Unit. The function 'test' is defined as '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") } }'. The 'main' function calls 'test' with four different pairs of arguments: (30, 0), (25, 5), (30, 20), and (25, 20). The output of the program is displayed on the right, showing 'X is greater than Y' for all four calls.

```
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  
16 def main(args: Array[String]): Unit = {  
17   test(30, 0);  
18   test(25, 5);  
19   test(30, 20);  
20   test(25, 20);  
21 }  
22  
23 }
```

Output:
X is greater than Y
X is greater than Y
X is greater than Y
X is greater than Y