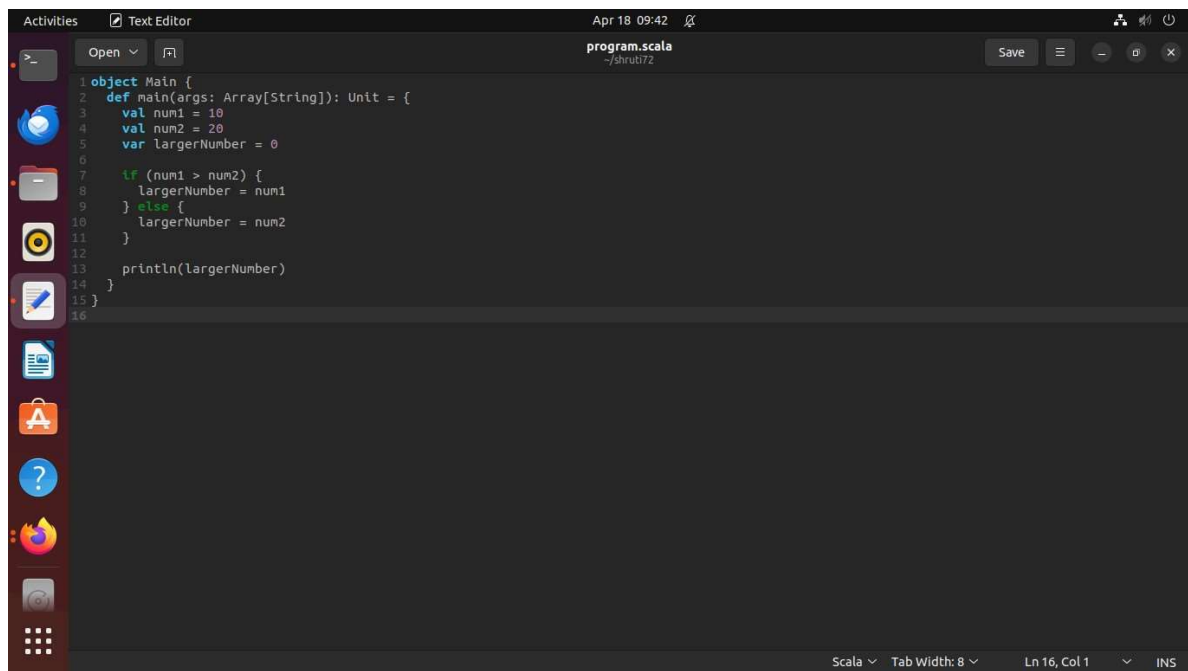
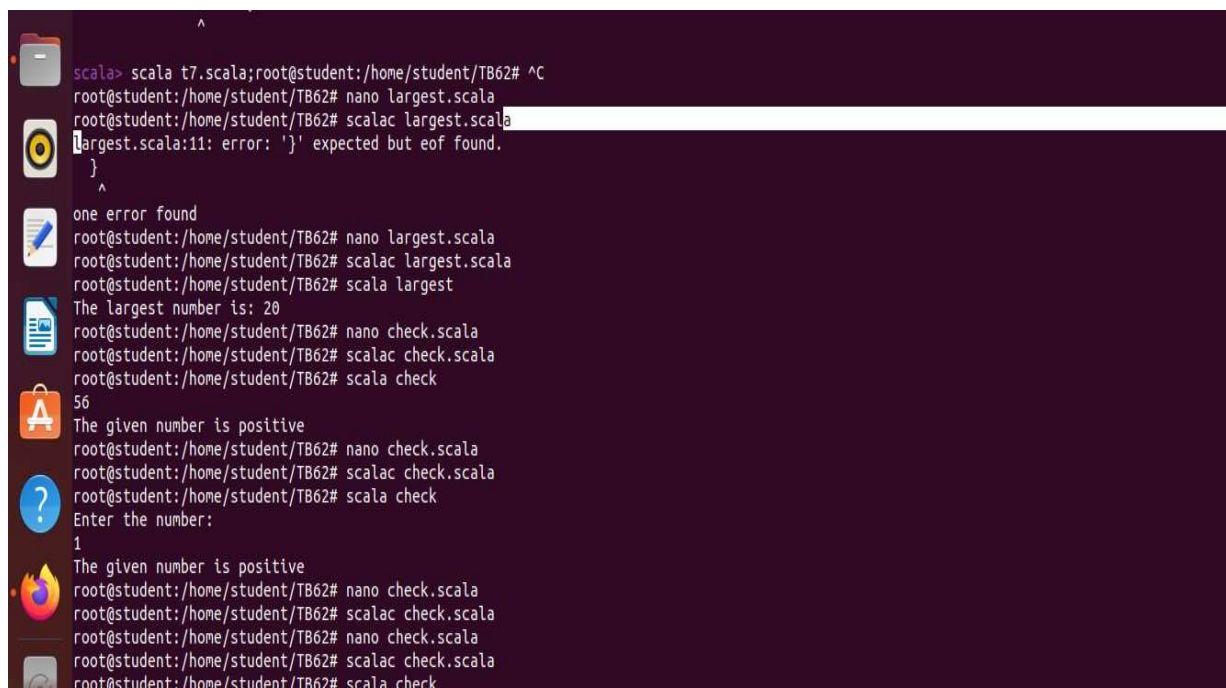


Assignment No. 12



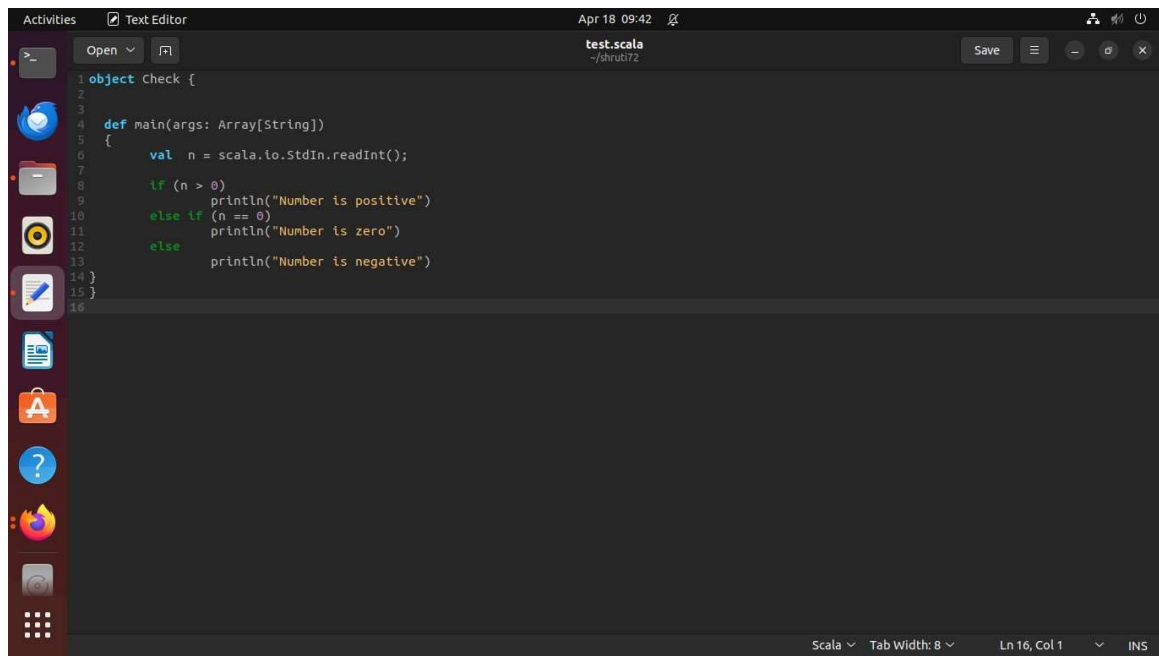
A screenshot of a text editor window titled "Text Editor" with a dark theme. The editor shows a Scala file named "program.scala" at line 16, column 1. The code defines an object Main with a main method that takes an array of strings and returns Unit. It initializes num1 to 10, num2 to 20, and largerNumber to 0. A conditional statement checks if num1 is greater than num2; if true, largerNumber is set to num1, otherwise to num2. Finally, largerNumber is printed.

```
1 object Main {  
2   def main(args: Array[String]): Unit = {  
3     val num1 = 10  
4     val num2 = 20  
5     var largerNumber = 0  
6  
7     if (num1 > num2) {  
8       largerNumber = num1  
9     } else {  
10      largerNumber = num2  
11    }  
12  
13    println(largerNumber)  
14  }  
15 }  
16
```



A screenshot of a terminal window showing the compilation and execution of the Scala program. The user runs 'scala t7.scala', which fails with a syntax error. They then use 'nano' to edit 'largest.scala', compile it with 'scalac', and run it with 'scala'. The program outputs 'The largest number is: 20'. They then create a 'check.scala' file, compile it, and run it, which prompts for a number. Entering '1' results in the output 'The given number is positive'.

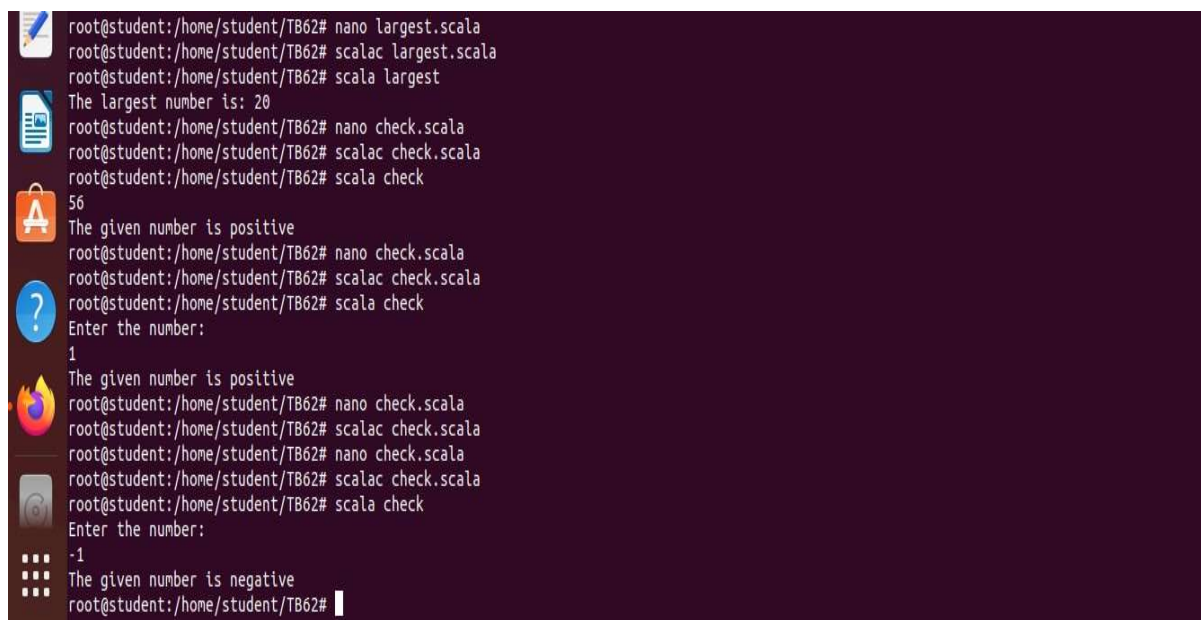
```
scala> scala t7.scala;root@student:/home/student/TB62# ^C  
root@student:/home/student/TB62# nano largest.scala  
root@student:/home/student/TB62# scalac largest.scala  
largest.scala:11: error: ')' expected but eof found.  
    }  
    ^  
one error found  
root@student:/home/student/TB62# nano largest.scala  
root@student:/home/student/TB62# scalac largest.scala  
root@student:/home/student/TB62# scala largest  
The largest number is: 20  
root@student:/home/student/TB62# nano check.scala  
root@student:/home/student/TB62# scalac check.scala  
root@student:/home/student/TB62# scala check  
56  
The given number is positive  
root@student:/home/student/TB62# nano check.scala  
root@student:/home/student/TB62# scalac check.scala  
root@student:/home/student/TB62# scala check  
Enter the number:  
1  
The given number is positive  
root@student:/home/student/TB62# nano check.scala  
root@student:/home/student/TB62# scalac check.scala  
root@student:/home/student/TB62# nano check.scala  
root@student:/home/student/TB62# scalac check.scala  
root@student:/home/student/TB62# scala check
```



The screenshot shows a text editor window titled 'test.scala' with the following code:

```
1 object Check {  
2  
3  
4 def main(args: Array[String])  
5 {  
6     val n = scala.io.StdIn.readInt();  
7  
8     if (n > 0)  
9         println("Number is positive")  
10    else if (n == 0)  
11        println("Number is zero")  
12    else  
13        println("Number is negative")  
14 }  
15 }  
16
```

The editor interface includes a menu bar with 'Open', 'Save', and other options. The status bar at the bottom indicates 'Scala', 'Tab Width: 8', 'Ln 16, Col 1', and 'INS'.



The screenshot shows a terminal window with the following commands and output:

```
root@student:/home/student/TB62# nano largest.scala  
root@student:/home/student/TB62# scalac largest.scala  
root@student:/home/student/TB62# scala largest  
The largest number is: 20  
root@student:/home/student/TB62# nano check.scala  
root@student:/home/student/TB62# scalac check.scala  
root@student:/home/student/TB62# scala check  
56  
The given number is positive  
root@student:/home/student/TB62# nano check.scala  
root@student:/home/student/TB62# scalac check.scala  
root@student:/home/student/TB62# scala check  
Enter the number:  
1  
The given number is positive  
root@student:/home/student/TB62# nano check.scala  
root@student:/home/student/TB62# scalac check.scala  
root@student:/home/student/TB62# nano check.scala  
root@student:/home/student/TB62# scalac check.scala  
root@student:/home/student/TB62# scala check  
Enter the number:  
-1  
The given number is negative  
root@student:/home/student/TB62#
```