

Scala Programming

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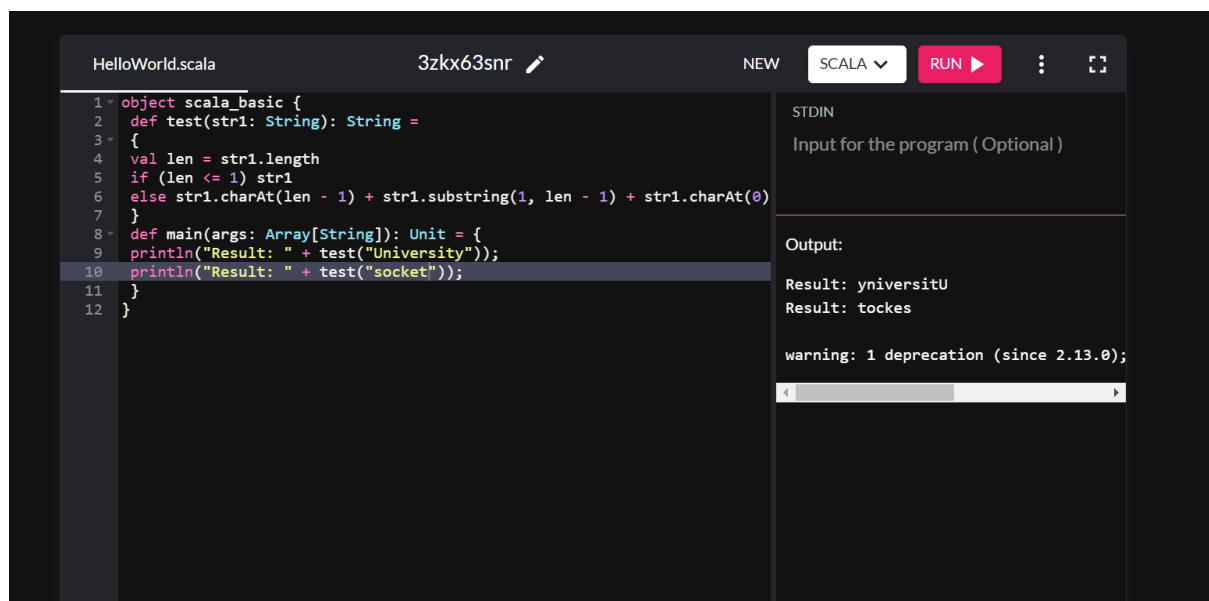
Branch: CSE- AI& DE

1. Write a Scala program to exchange the first and last characters in a given string and return the new string

Code:

```
object scala_basic {  
  def test(str1: String): String =  
  {  
    val len = str1.length  
    if (len <= 1) str1  
    else str1.charAt(len - 1) + str1.substring(1, len - 1) + str1.charAt(0)  
  }  
  def main(args: Array[String]): Unit = {  
    println("Result: " + test("University"));  
    println("Result: " + test("socket"));  
  }  
}
```

Output:



The screenshot shows a Scala IDE interface. The left pane displays the code for 'HelloWorld.scala' with line numbers 1 to 12. The code defines a 'test' function that swaps the first and last characters of a string and a 'main' function that prints the results for 'University' and 'socket'. The right pane shows the 'Output' section with the results: 'Result: yniversitU' and 'Result: tockes'. A warning message at the bottom of the output pane states: 'warning: 1 deprecation (since 2.13.0);'. The top of the IDE shows the file name 'HelloWorld.scala', the user '3zqx63snr', and buttons for 'NEW', 'SCALA', 'RUN', and a settings icon.

```
1 object scala_basic {  
2   def test(str1: String): String =  
3   {  
4     val len = str1.length  
5     if (len <= 1) str1  
6     else str1.charAt(len - 1) + str1.substring(1, len - 1) + str1.charAt(0)  
7   }  
8   def main(args: Array[String]): Unit = {  
9     println("Result: " + test("University"));  
10    println("Result: " + test("socket"));  
11  }  
12 }
```

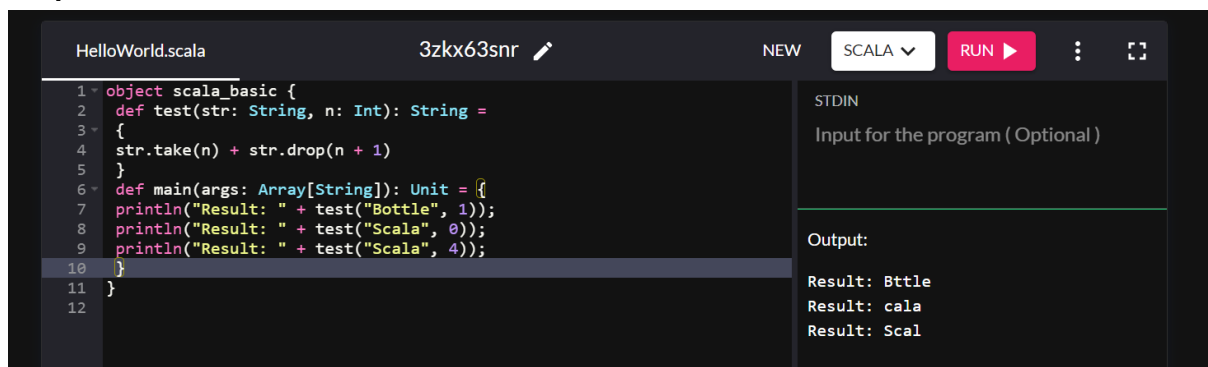
Output:
Result: yniversitU
Result: tockes
warning: 1 deprecation (since 2.13.0);

2. Write a Scala program to remove the character in a given position of a given string.
The given position will be in the range 0...string length -1 inclusive

Code:

```
object scala_basic {  
  def test(str: String, n: Int): String =  
  {  
    str.take(n) + str.drop(n + 1)  
  }  
  def main(args: Array[String]): Unit = {  
    println("Result: " + test("Bottle", 1));  
    println("Result: " + test("Scala", 0));  
    println("Result: " + test("Scala", 4));  
  }  
}
```

Output:



The screenshot shows a Scala IDE interface. The top bar includes the filename 'HelloWorld.scala', the username '3zqx63snr', 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 sidebar with two sections: 'STDIN' with the text 'Input for the program (Optional)' and 'Output' with the results of the program execution.

```
1 object scala_basic {  
2   def test(str: String, n: Int): String =  
3   {  
4     str.take(n) + str.drop(n + 1)  
5   }  
6   def main(args: Array[String]): Unit = {  
7     println("Result: " + test("Bottle", 1));  
8     println("Result: " + test("Scala", 0));  
9     println("Result: " + test("Scala", 4));  
10  }  
11 }  
12
```

Output:
Result: Bttle
Result: cala
Result: Scal