

## LAB-7

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The screenshot displays the OneCompiler website interface. The main editor shows a Scala program named 'HelloWorld.scala' with the following code:

```
1 abstract class Shape {
2   def area: Double
3 }
4 class Rectangle(width: Double, height: Double) extends Shape {
5   override def area: Double = width * height
6 }
7 class Circle(radius: Double) extends Shape {
8   override def area: Double = math.Pi * radius * radius
9 }
10 object ShapeApp {
11   def main(args: Array[String]): Unit = {
12     val rectangle = new Rectangle(10, 5)
13     println(s"Rectangle Area: ${rectangle.area}")
14     val circle = new Circle(4.5)
15     println(s"Circle Area: ${circle.area}")
16   }
17 }
18
```

The output of the program is displayed on the right side:

```
Output:
Rectangle Area: 325.0
Circle Area: 63.61725123519331
```

Below the code editor, there is a section titled 'Scala Online Compiler' with a description: 'Write, Run & Share Scala code online using OneCompiler's Scala online compiler for free. It's one of the robust, feature-rich online compilers for Scala language, running on the latest version 2.13.8. Getting started with the OneCompiler's Scala compiler is simple and pretty fast. The editor shows sample boilerplate code'.

The bottom part of the image shows a second screenshot of the same OneCompiler interface, but with a different code snippet in the editor:

```
1 abstract class Shape {
2   def area: Double
3 }
4 class Rectangle(width: Double, height: Double) extends Shape {
5   override def area: Double = width * height
6 }
7 class Circle(radius: Double) extends Shape {
8   override def area: Double = math.Pi * radius * radius
9 }
10 object ShapeApp {
11   def main(args: Array[String]): Unit = {
12     val rectangle = new Rectangle(7, 5)
13     println(s"Rectangle Area: ${rectangle.area}")
14     val circle = new Circle(4.5)
15     println(s"Circle Area: ${circle.area}")
16   }
17 }
18
```

The output for this code is:

```
Output:
Rectangle Area: 35.0
Circle Area: 63.61725123519331
```

The bottom screenshot also shows the Windows taskbar at the bottom of the browser window, indicating the system time as 11:09:2023.

3zm8nt9w2 - Scala - OneComp...OS Lab Manual Format\_Scala.p...+https://onecompiler.com/scala/3zm8nt9w2

3zm8nt9w2

NEWSCALARUN

HelloWorld.scala

```
1- abstract class Shape {
2-   def area: Double
3- }
4- class Rectangle(width: Double, height: Double) extends Shape {
5-   override def area: Double = width * height
6- }
7- class Circle(radius: Double) extends Shape {
8-   override def area: Double = math.Pi * radius * radius
9- }
10- object ShapeApp {
11-   def main(args: Array[String]): Unit = {
12-     val rectangle = new Rectangle("A", 5)
13-     println(s"Rectangle Area: ${rectangle.area}")
14-     val circle = new Circle(4.5)
15-     println(s"Circle Area: ${circle.area}")
16-   }
17- }
18-
```

STDIN

Input for the program (Optional)

Output:

HelloWorld.scala:12: error: type mismatch;  
found : String("A")  
required: Double  
val rectangle = new Rectangle("A", 5)  
 ^

28°C  
Mostly cloudy

Search

ENG  
IN

17:54  
11.09.2023