Session 17: SCALA BASICS 4 Assignment 1

Task 1

Write a simple program to show inheritance in scala.

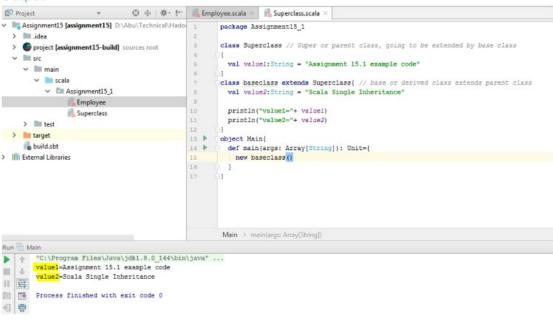
Scala Code

```
package Assignment15_1

class Superclass // Super or parent class, going to be extended by base class
{
    val valuel:String = "Assignment 15.1 example code"
}
class baseclass extends Superclass{ // base or derived class extends parent class
    val value2:String = "Scala Single Inheritance"

    println("value1="+ value1)
    println("value2="+ value2)
}
object Main{
    def main(args: Array[String]): Unit={
        new baseclass()
    }
}
```

Output

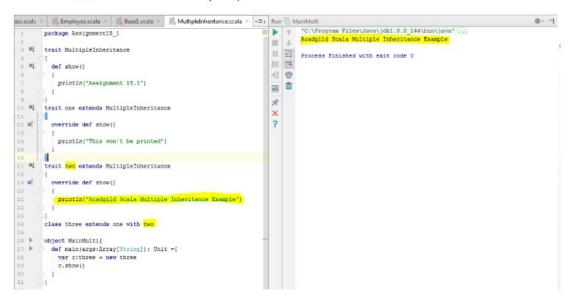


Task 2 Write a simple program to show multiple inheritance in scala

```
package Assignment15 1
trait MultipleInheritance //parent trait
  def show() // defining the function show()
   println("Assignment 15.1")
trait one extends MultipleInheritance // extending the parent trait
 override def show()
   println("This won't be printed")
trait two extends MultipleInheritance // extending the parent trait
 override def show()
   println("Acadgild Scala Multiple Inheritance Example")
class three extends one with two //extending the base traits, calling the function
object MainMulti{
 def main(args:Array[String]): Unit ={
   var c:three - new three // it will call last function which is mentioned in the
class three, changing the order will give different result
   c.show()
1
```

Output

Example 1, here the class *three* calling the trait one with *two*, the *two* in the last order and hence the function of *two* will be called and output is,



Example 2, in this example the object MainMulti called the trait one and see the result below,