

Session 15

Assignment 1 Questions



Problem Statement

1.Write a simple program to show inheritance in scala.

```
Code:-
class Employee{
  var salary:Float = 10000
}
class Programmer extends Employee{
  var bonus:Int = 5000
  println("Salary = "+salary)
  println("Bonus = "+bonus)
}
object simpleinherit{
  def main(args:Array[String]){
    new Programmer()
  }
   }
```

Output :-

Salary = 10000.0 Bonus = 5000

```
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                                                           }
                                                          class Programmer extends Employee{
  var bonus:Int = 5000
  println("Salary = "+salary)
  println("Bonus = "+bonus)
                                                          object simpleinherit{
   def main(args:Array[String]){
      new Programmer()
   }
                                                                                                                                                                                 **Lerminated > New _configuration [Scala Application] C\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 2, 2017, 7:47:42 PM)

Salary = 10000.0

Bonus = 5000
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```

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

Scala doesn't allow for multiple inheritance *per se*, but allows to extends multiple traits.

Code:-

```
trait Printable{
   def print()
}

trait Showable{
   def show()
}

class A6 extends Printable with Showable{
   def print(){
```

```
println("This is printable")
}
def show(){
    println("This is showable");
}

object traiter{
    def main(args:Array[String]){
       var a = new A6()
       a.print()
       a.show()
}
```

Output: -

This is printable This is showable

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Showable
A6
traiter trait Printable{
 def print() } trait Showable{
 def show()
} class A6 extends Printable with Showable{
 def print(){
 println("This is printable")
} }
def show(){
 println("This is showable");
} } object traiter|(
def main(args:Array[String]){
 var a = new A6()
 a.print()
 a.show() = X % | R A B F F F F O - C - C cheminated NewConfiguration [Scala Application] C\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 2, 2017, 7:54:45 PM)
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