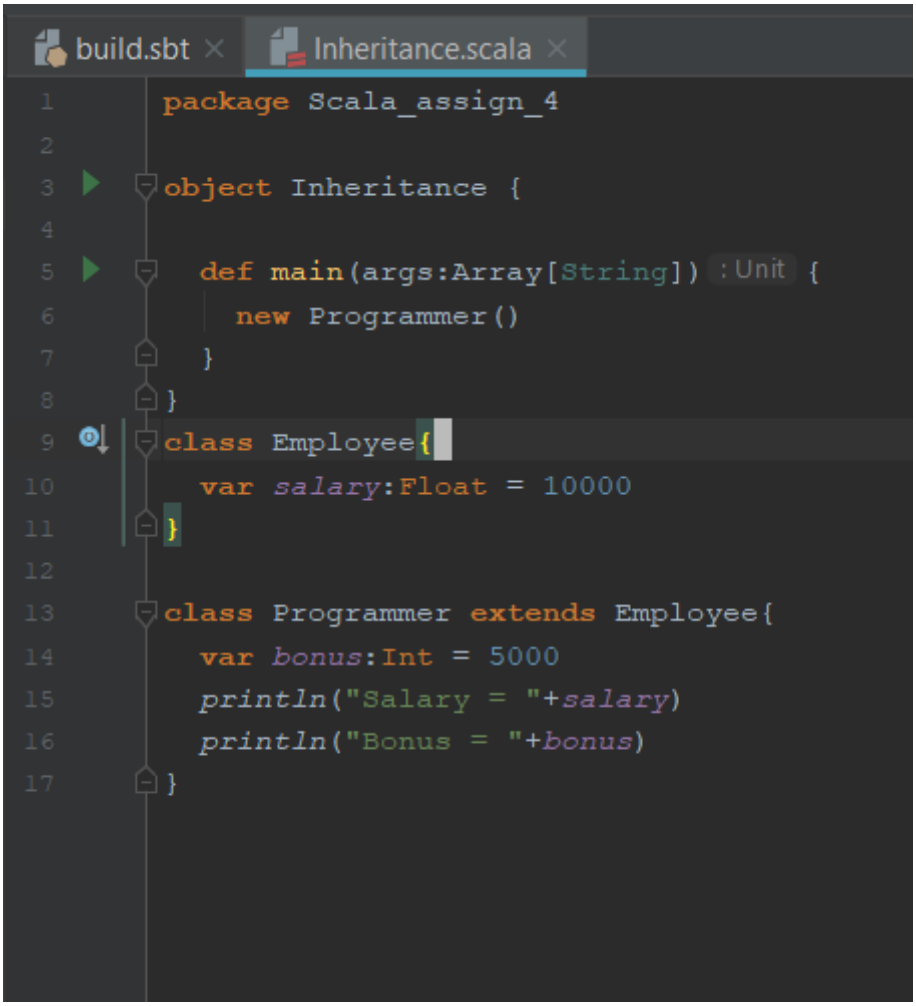
Assignment -17

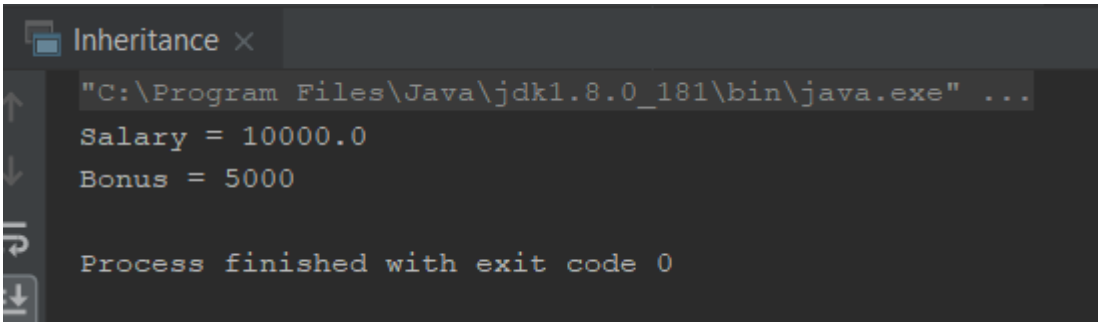
Task 1:

Write a simple program to show inheritance in scala.

Scala code to show inheritance is shown the below screenshot.



Output of the above code is as shown in the below screenshot.

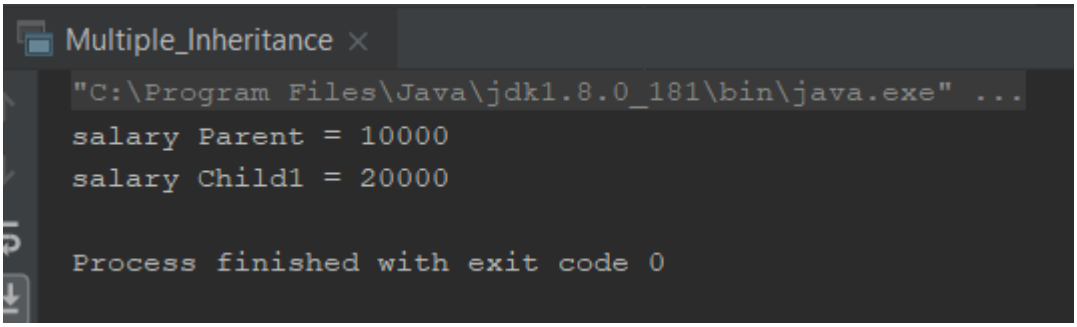


Task 2

Write a simple program to show multiple inheritance in scala

Scala code to implement multiple inheritance is shown in the screenshot.

Output of the above code is shown in the below screenshot.



Task 3:

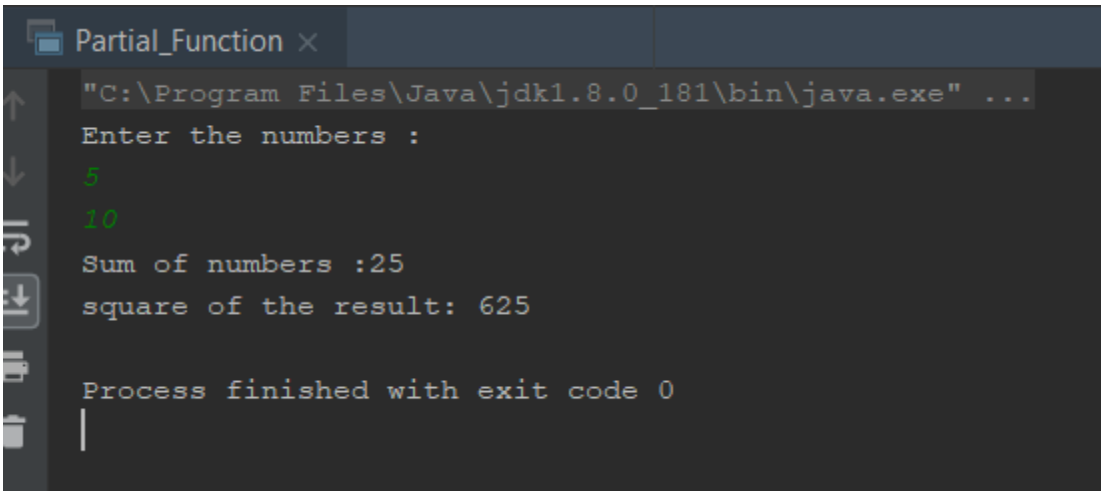
Write a partial function to add three numbers in which one number is constant and two numbers can be passed as inputs and define another method which can take the partial function as input and squares the result.

Partial function to add three numbers and squaring the result of partial function is implemented using the below scala code.

build.sbt | Partial_Function.scala

```
package Scala_assign_4

object Partial_Function {

  def main(args:Array[String]): Unit = {

    println("Enter the numbers :")

    var x : Int = scala.io.StdIn.readInt()
    var y : Int = scala.io.StdIn.readInt()

    new PartialFunction().partialsum(x,y)
    }
}
class PartialFunction {
def summation(a:Int,b:Int,c:Int) :Int  = a+b+c

  def partialsum(x:Int, y:Int) :Unit {

  val add = summation(_:Int, _:Int, 10)
  println("Sum of numbers :" + add(x,y))

  def squareResult(result: Int) :Int  = result * result

  val square = squareResult(add(x,y))
  println("square of the result: " + square)
}
}
```

The output of the above code is shown in the below screenshot.



Task 4

Write a program to print the prices of 4 courses of Acadgild:

Android App Development -14,999 INR

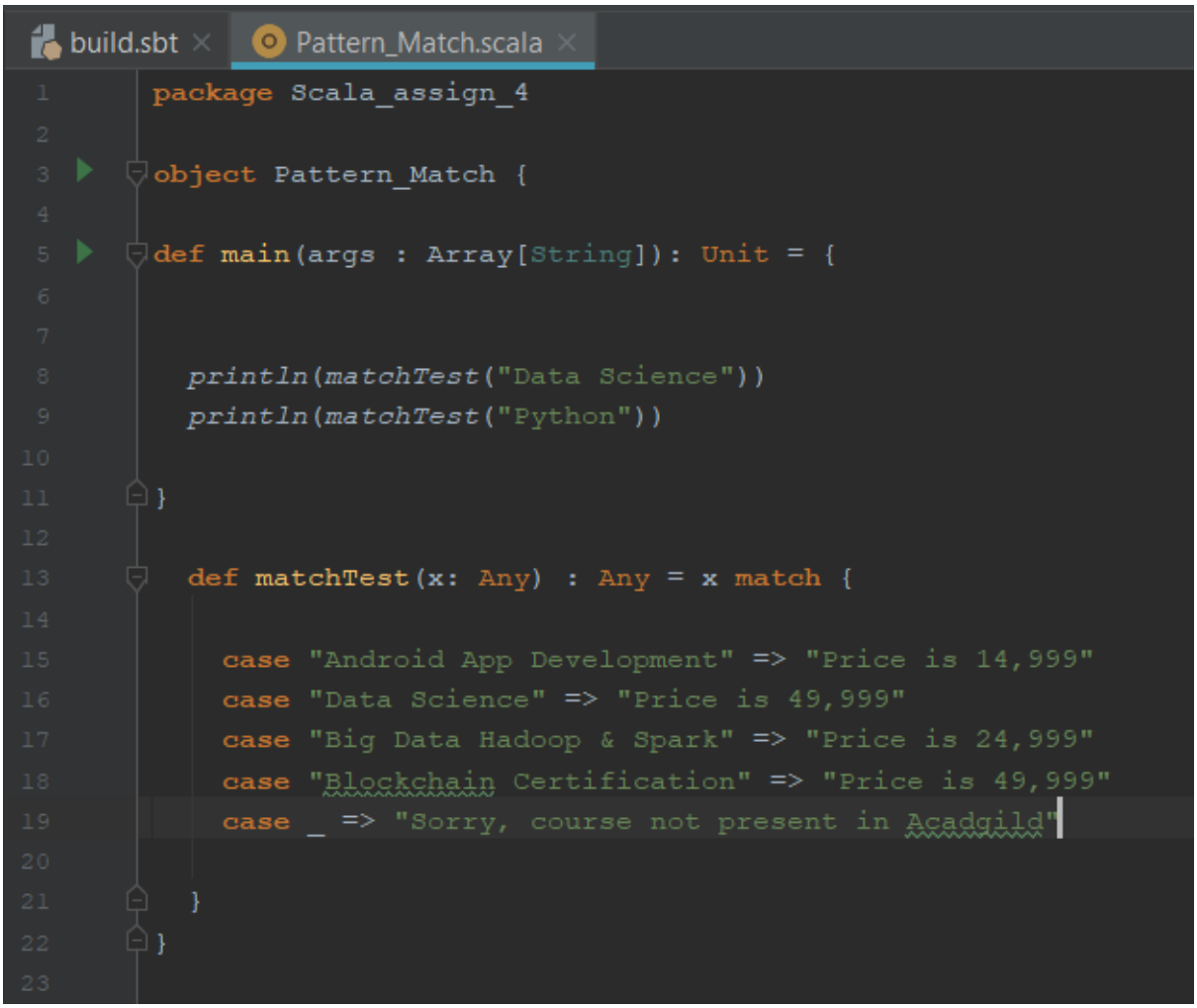
Data Science - 49,999 INR

Big Data Hadoop & Spark Developer – 24,999 INR

Blockchain Certification – 49,999 INR

using match and add a default condition if the user enters any other course.

Scala code to implement the above pattern match conditions has been shown in the below screenshot.



The output of the above code is shown in the below screenshot.