# Scala IV

# Task 1

Write a simple program to show inheritance in scala.

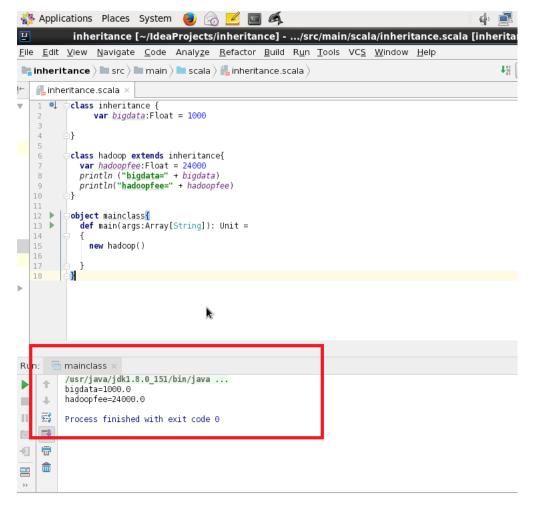
# Code:

```
class inheritance {
    var bigdata:Float = 1000
}

class hadoop extends inheritance{
    var hadoopfee:Float = 24000
    println ("bigdata=" + bigdata)
    println("hadoopfee=" + hadoopfee)
}

object mainclass{
    def main(args:Array[String]): Unit =
    {
        new hadoop()
    }
}
```

# **Output:**



Task 2

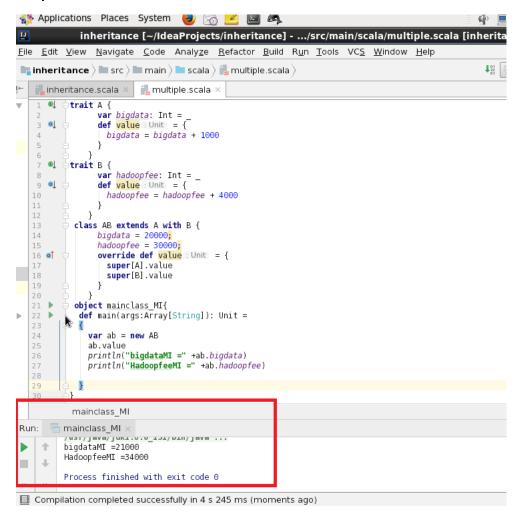
Write a simple program to show multiple inheritance in scala

#### Code:

```
trait A {
   var bigdata: Int = _
   def value = {
     bigdata = bigdata + 1000
trait B {
   var hadoopfee: Int = _
   def value = {
    hadoopfee = hadoopfee + 4000
class AB extends A with B {
   bigdata = 20000;
   hadoopfee = 30000;
   override def value = {
     super[A].value
     super[B].value
object mainclass_MI{
 def main(args:Array[String]): Unit =
```

```
var ab = new AB
ab.value
println("bigdataMI =" +ab.bigdata)
println("HadoopfeeMI =" +ab.hadoopfee)
}
}
```

### **Output:**



Task 3

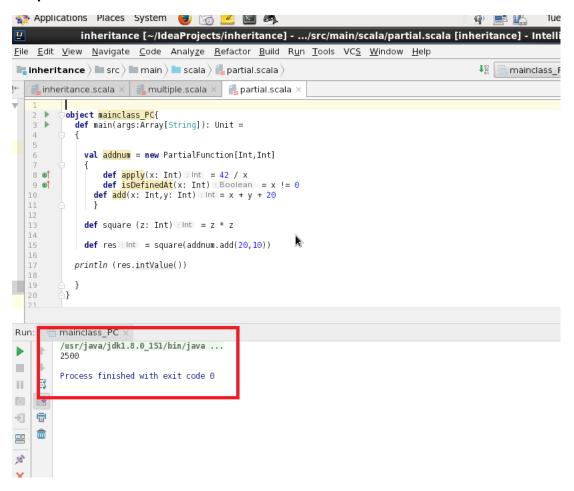
Write a partial function to add three numbers in which one number is constant and two numbers can be passed as inputs and define another method which can take the partial function as input and squares the result.

#### Code:

```
object mainclass_PC{
  def main(args:Array[String]): Unit =
  {
   val addnum = new PartialFunction[Int,Int]
   {
     def apply(x: Int) = 42 / x
     def isDefinedAt(x: Int) = x != 0
```

```
def add(x: Int,y: Int) = x + y + 20
}
def square (z: Int) = z * z
def res = square(addnum.add(20,10))
println (res.intValue())
}
```

### **Output:**



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.

## Code:

```
object mainclass_T{
  def main(args:Array[String]): Unit = {
  val android = Tuple2("Android App Development",14999)
```

```
val data = Tuple2("Data Science",49999)
val big = Tuple2("Big Data Hadoop",24999)
val block = Tuple2("Block Chain Certification",49999)

val courselist = List(android,data,big,block)

val price = courselist.foreach { tuple => {
    tuple match {
    case d => println(s"${d._1},${d._2}")
    case _ => None
    }
}
```

### **Output:**

