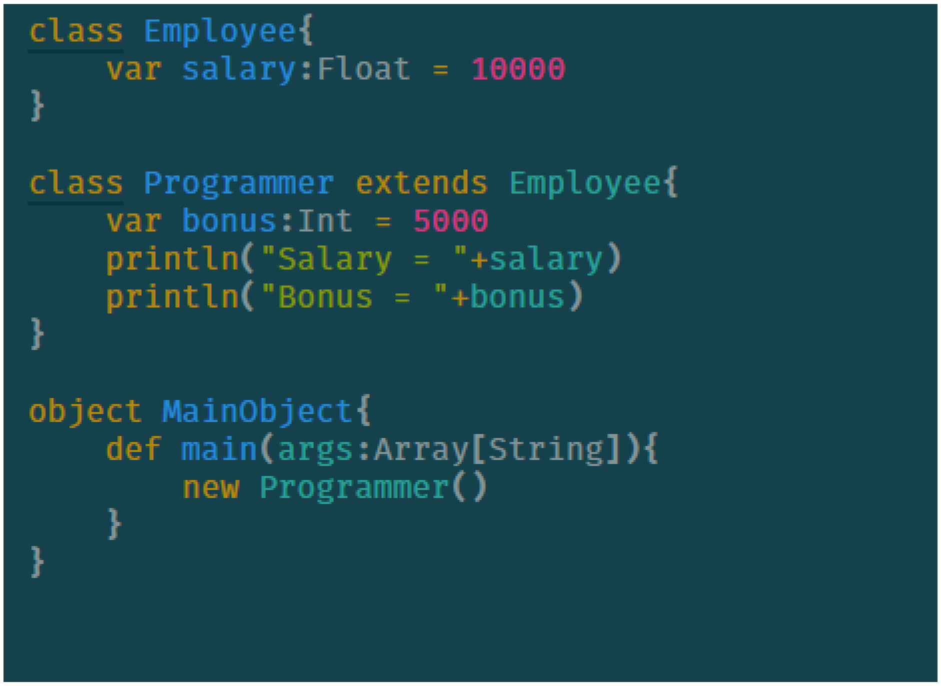
Session 17: SCALA BASICS 4

Task 1

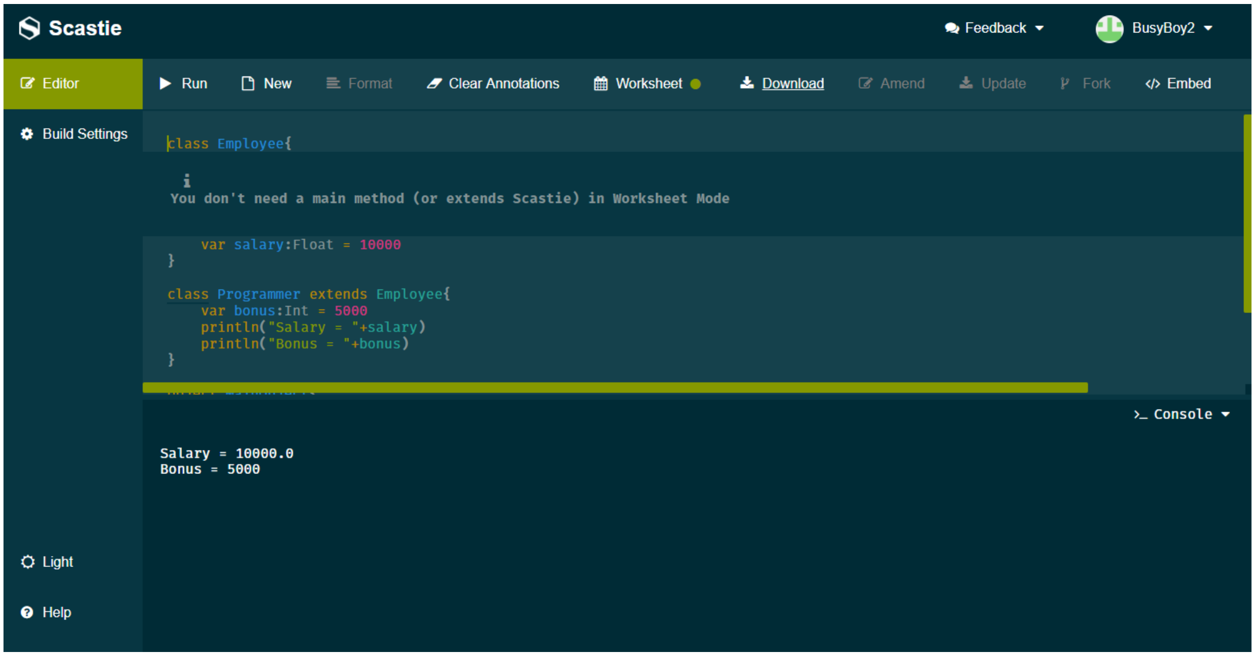
Write a simple program to show inheritance in Scala.



```
class Employee{
    var salary:Float = 10000
}

class Programmer extends Employee{
    var bonus:Int = 5000
    println("Salary = "+salary)
    println("Bonus = "+bonus)
}

object MainObject{
    def main(args:Array[String]){
        new Programmer()
    }
}
```



```
class Employee{

    i
  You don't need a main method (or extends Scastie) in Worksheet Mode

    var salary:Float = 10000
}

class Programmer extends Employee{
    var bonus:Int = 5000
    println("Salary = "+salary)
    println("Bonus = "+bonus)
}
```

```
Salary = 10000.0
Bonus = 5000
```

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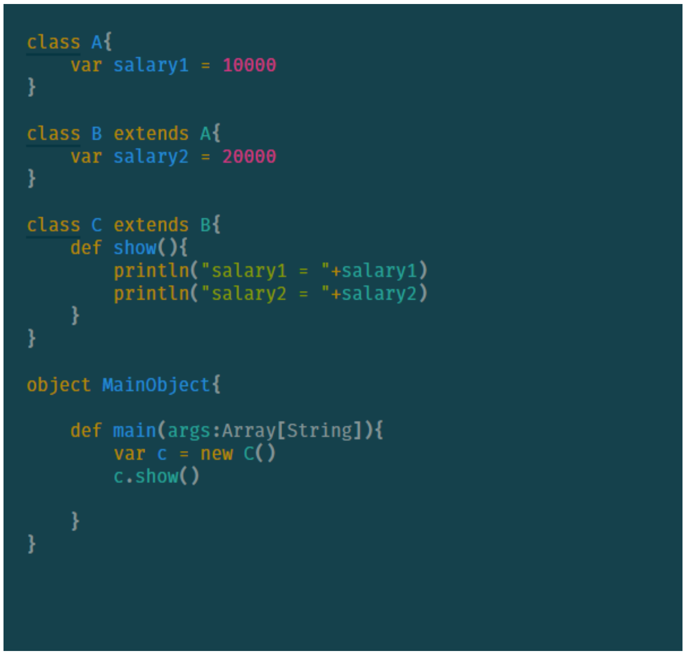
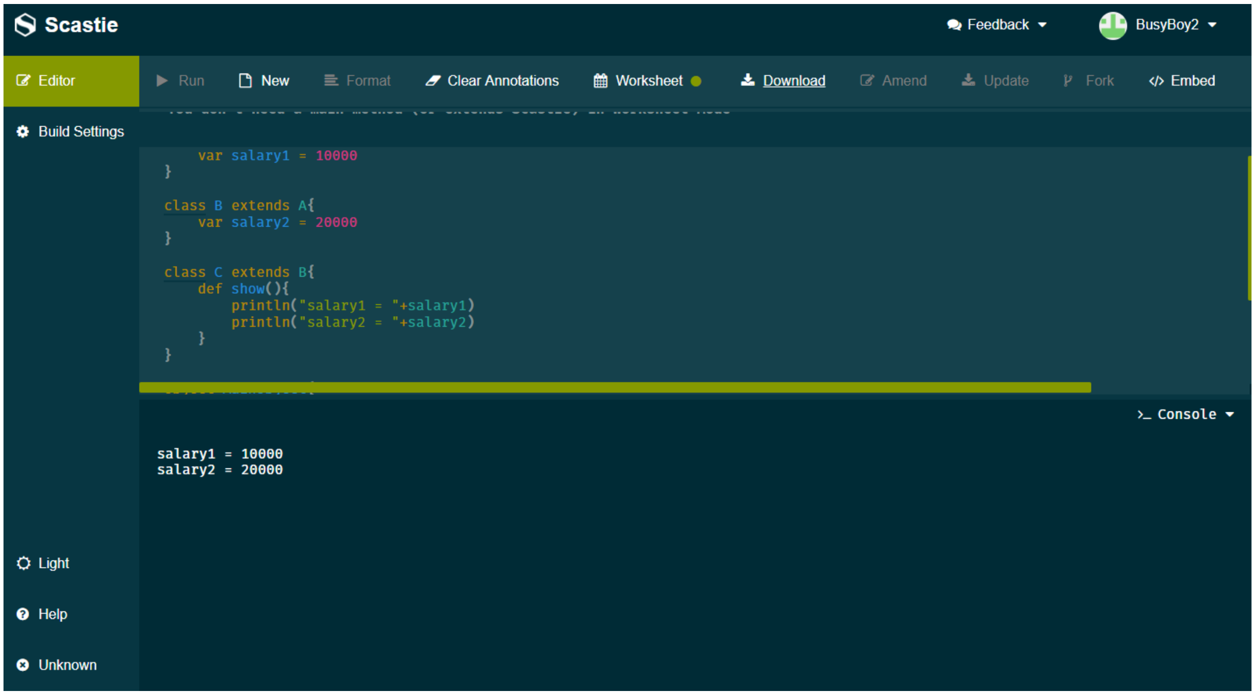
Task 2

Write a simple program to show multiple inheritance in Scala



```
class A{
    var salary1 = 10000
}

class B extends A{
    var salary2 = 20000
}

class C extends B{
    def show(){
        println("salary1 = "+salary1)
        println("salary2 = "+salary2)
    }
}

object MainObject{

    def main(args:Array[String]){
        var c = new C()
        c.show()

    }
}
```



```
    var salary1 = 10000
}

class B extends A{
    var salary2 = 20000
}

class C extends B{
    def show(){
        println("salary1 = "+salary1)
        println("salary2 = "+salary2)
    }
}
```

```
salary1 = 10000
salary2 = 20000
```

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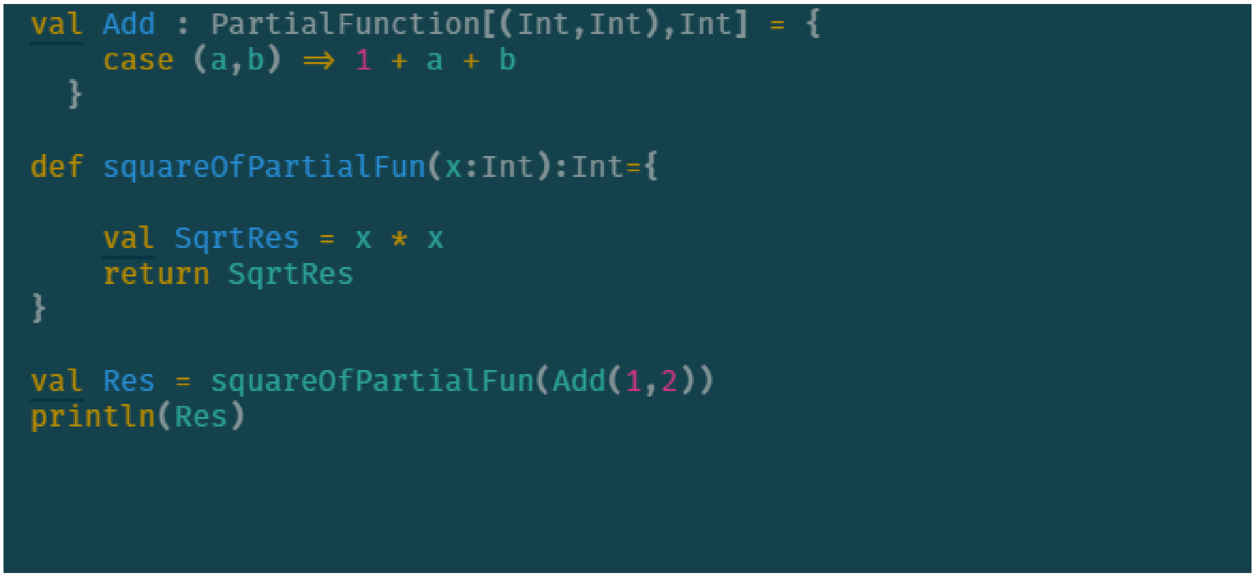
Task 3

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.

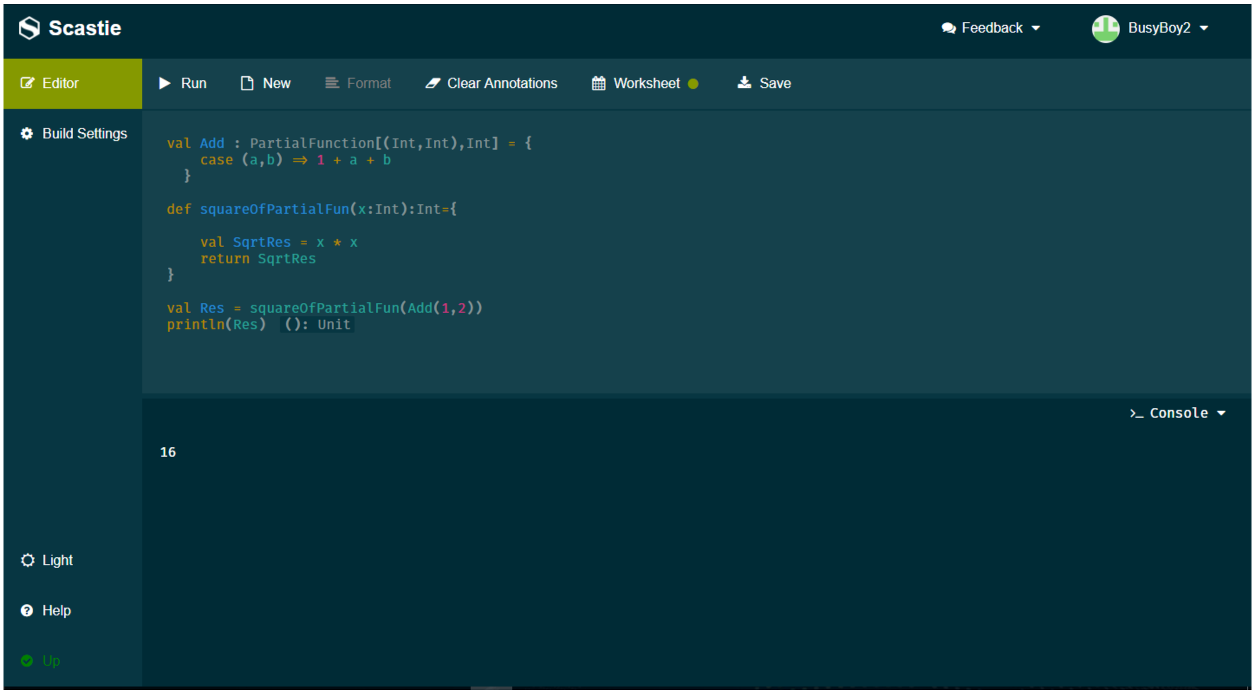


```
val Add : PartialFunction[(Int,Int),Int] = {
    case (a,b) => 1 + a + b
  }

def squareOfPartialFun(x:Int):Int={

    val SqrtRes = x * x
    return SqrtRes
}

val Res = squareOfPartialFun(Add(1,2))
println(Res)
```



```
val Add : PartialFunction[(Int,Int),Int] = {
    case (a,b) => 1 + a + b
  }

def squareOfPartialFun(x:Int):Int={

    val SqrtRes = x * x
    return SqrtRes
}

val Res = squareOfPartialFun(Add(1,2))
println(Res)  (): Unit
```

```
16
```

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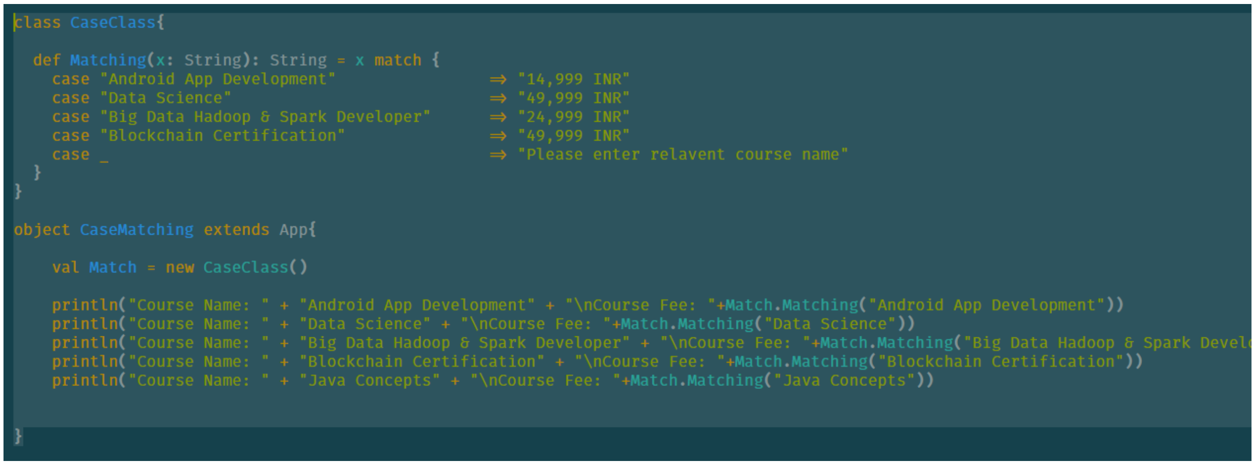
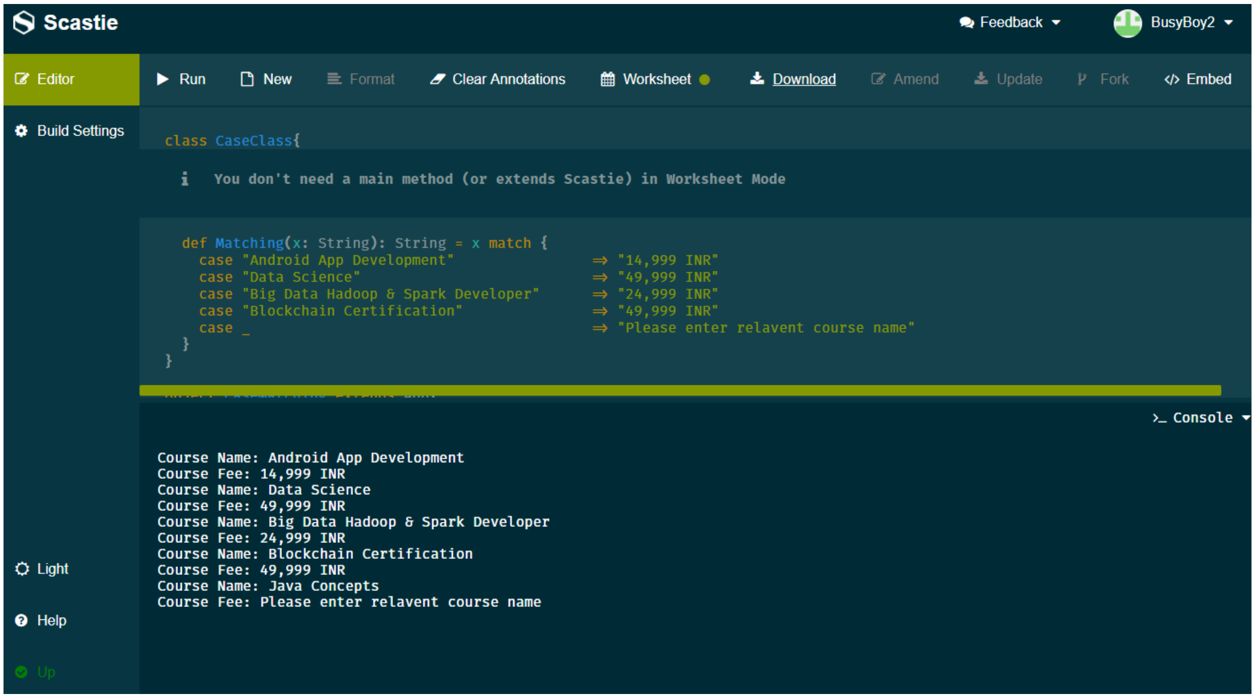
Task 4

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.



```
class CaseClass{

  def Matching(x: String): String = x match {
    case "Android App Development"              ⇒ "14,999 INR"
    case "Data Science"                         ⇒ "49,999 INR"
    case "Big Data Hadoop & Spark Developer"    ⇒ "24,999 INR"
    case "Blockchain Certification"             ⇒ "49,999 INR"
    case _                                      ⇒ "Please enter relavent course name"
  }
}

object CaseMatching extends App{

    val Match = new CaseClass()

    println("Course Name: " + "Android App Development" + "\nCourse Fee: "+Match.Matching("Android App Development"))
    println("Course Name: " + "Data Science" + "\nCourse Fee: "+Match.Matching("Data Science"))
    println("Course Name: " + "Big Data Hadoop & Spark Developer" + "\nCourse Fee: "+Match.Matching("Big Data Hadoop & Spark Develo
    println("Course Name: " + "Blockchain Certification" + "\nCourse Fee: "+Match.Matching("Blockchain Certification"))
    println("Course Name: " + "Java Concepts" + "\nCourse Fee: "+Match.Matching("Java Concepts"))


}
```



```
class CaseClass{
```

You don't need a main method (or extends Scastie) in Worksheet Mode

```
  def Matching(x: String): String = x match {
    case "Android App Development"              ⇒ "14,999 INR"
    case "Data Science"                         ⇒ "49,999 INR"
    case "Big Data Hadoop & Spark Developer"    ⇒ "24,999 INR"
    case "Blockchain Certification"             ⇒ "49,999 INR"
    case _                                      ⇒ "Please enter relavent course name"
  }
}
```

```
Course Name: Android App Development
Course Fee: 14,999 INR
Course Name: Data Science
Course Fee: 49,999 INR
Course Name: Big Data Hadoop & Spark Developer
Course Fee: 24,999 INR
Course Name: Blockchain Certification
Course Fee: 49,999 INR
Course Name: Java Concepts
Course Fee: Please enter relavent course name
```