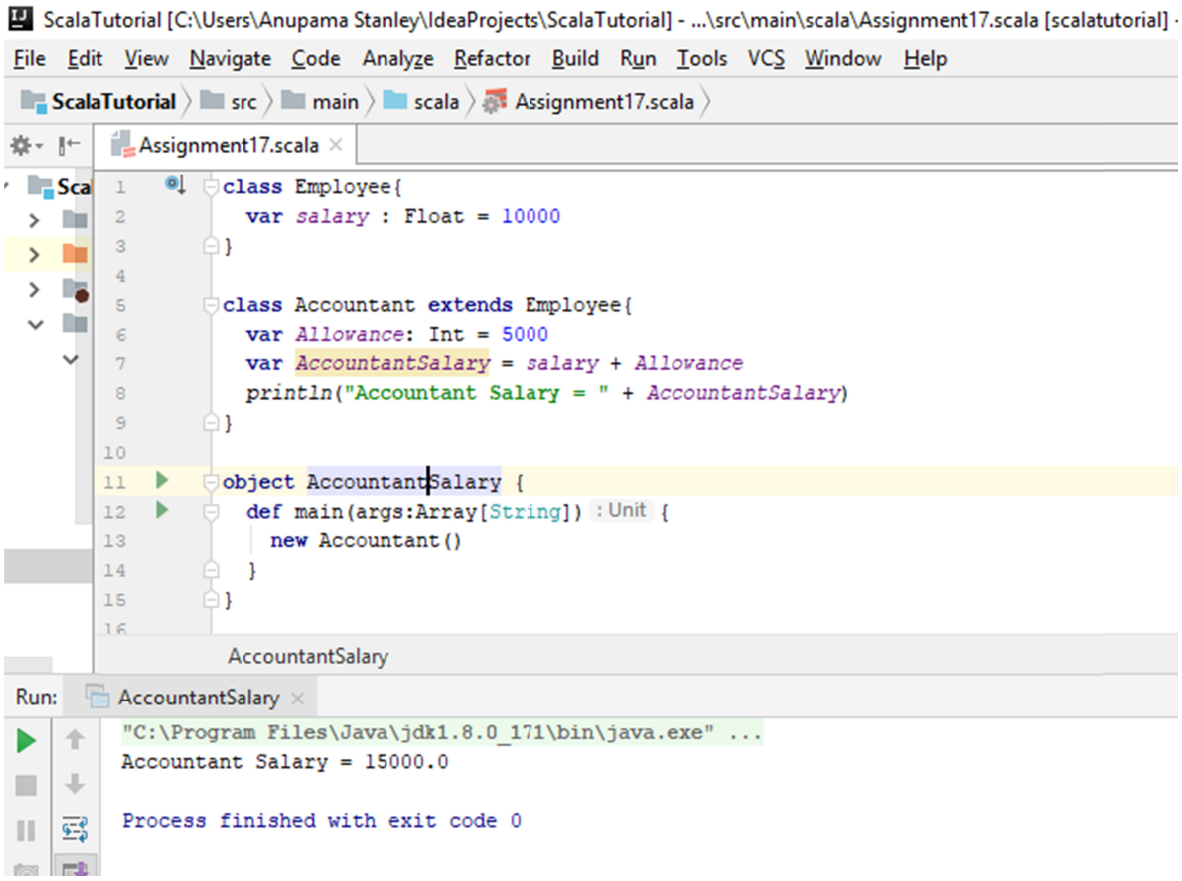
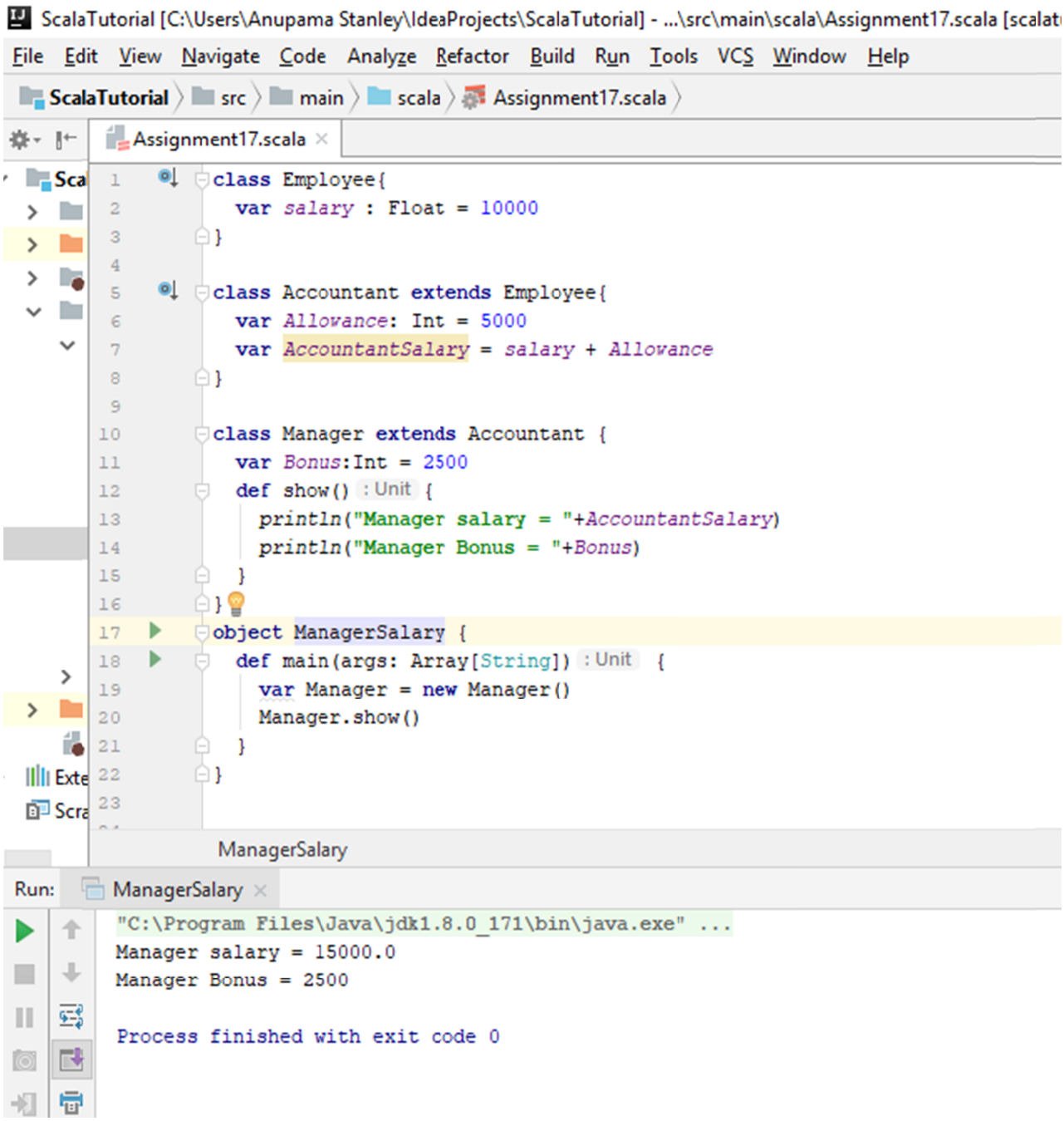
Task 1

Write a simple program to show inheritance in scala.



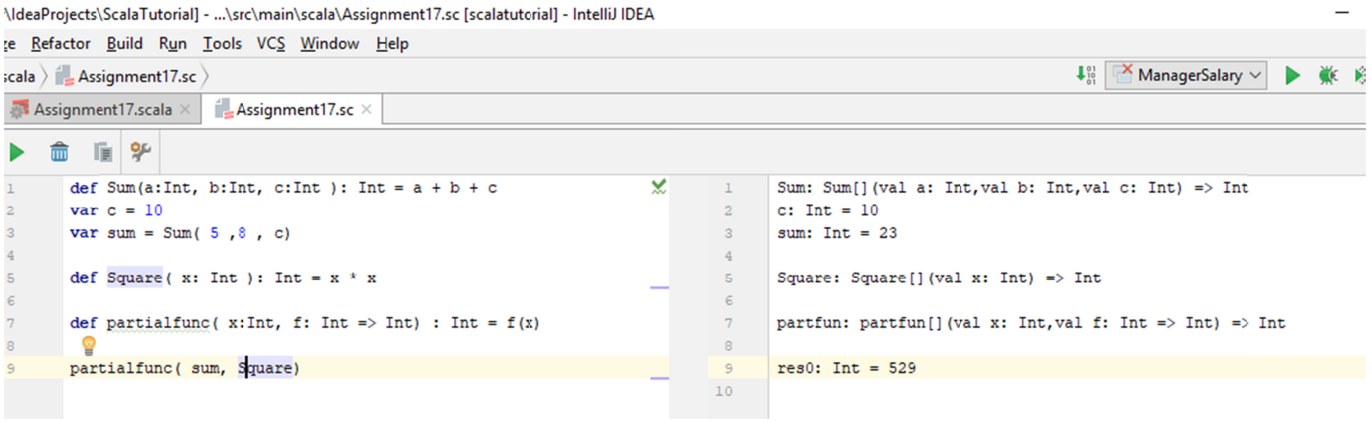
Task 2

Write a simple program to show multiple inheritance in scala



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.



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.

```
val AcadgildCourse = ""
AcadgildCourse match {
  case "Android App Development" => println( "course fee for Android App Development is 14,999 INR" )
  case "Data Science"=> println( "course fee for Data Science is 49,999 INR" )
  case "Big Data Hadoop & Spark Developer" => println("course fee Big Data Hadoop & Spark Developer 24,999 INR")
  case "Blockchain Certification" => println("course fee for Blockchain Certification is 49,999 INR" )
  case _ => println("Not a valid course")
}
```

Input : AcadgildCourse “Java”

```
val AcadgildCourse = "Java"
AcadgildCourse match {
  case "Android App Development" => println( "course fee for Android App D
  case "Data Science"=> println( "course fee for Data Science is 49,999 IN
  case "Big Data Hadoop & Spark Developer" => println("course fee Big Data
  case "Blockchain Certification" => println("course fee for Blockchain Ce
  case _ => println("Not a valid course")
}
```

```
AcadgildCourse: String = Java
Not a valid course
res0: Unit = ()
```

Input AcadgildCourse “Data Science”

```
val AcadgildCourse = "Data Science"
AcadgildCourse match {
  case "Android App Development" => println( "course fee for Android App D
  case "Data Science"=> println( "course fee for Data Science is 49,999 IN
  case "Big Data Hadoop & Spark Developer" => println("course fee Big Data
  case "Blockchain Certification" => println("course fee for Blockchain Ce
  case _ => println("Not a valid course")
}
```

```
AcadgildCourse: String = Data Science
course fee for Data Science is 49,999 INR
res0: Unit = ()
```