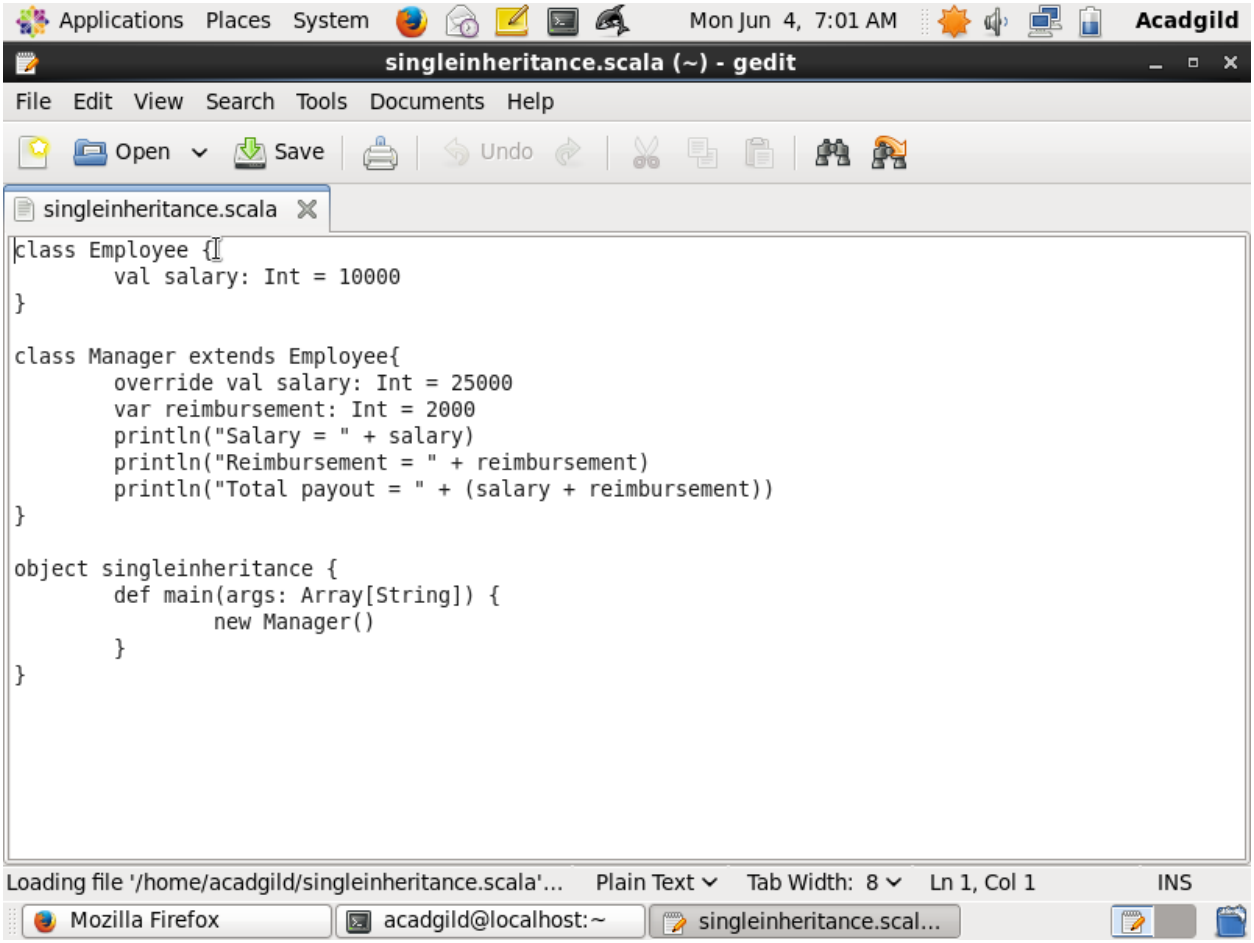
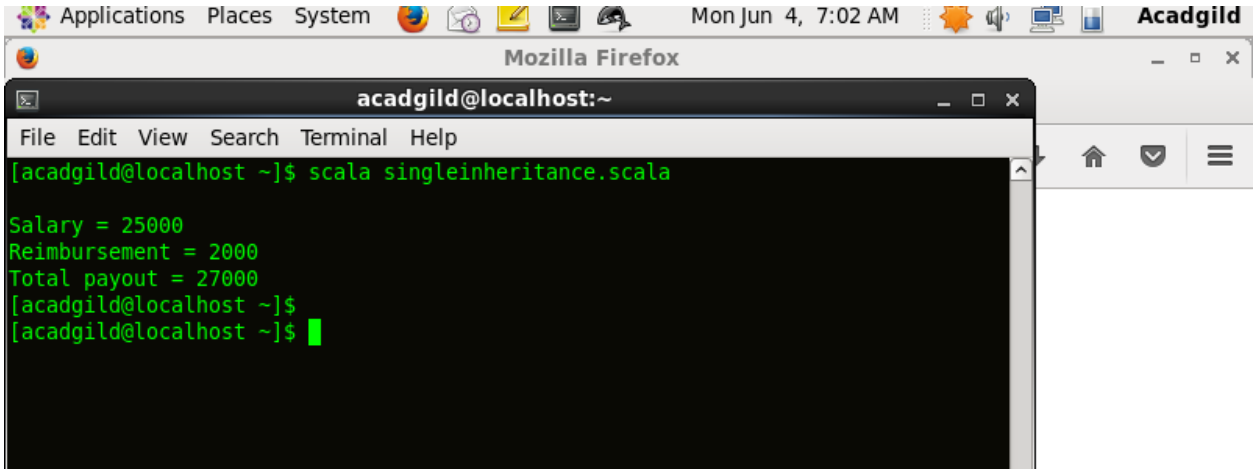
Task 1:

Employee is the super class and since Manager class extends, it becomes a sub class.

Code:

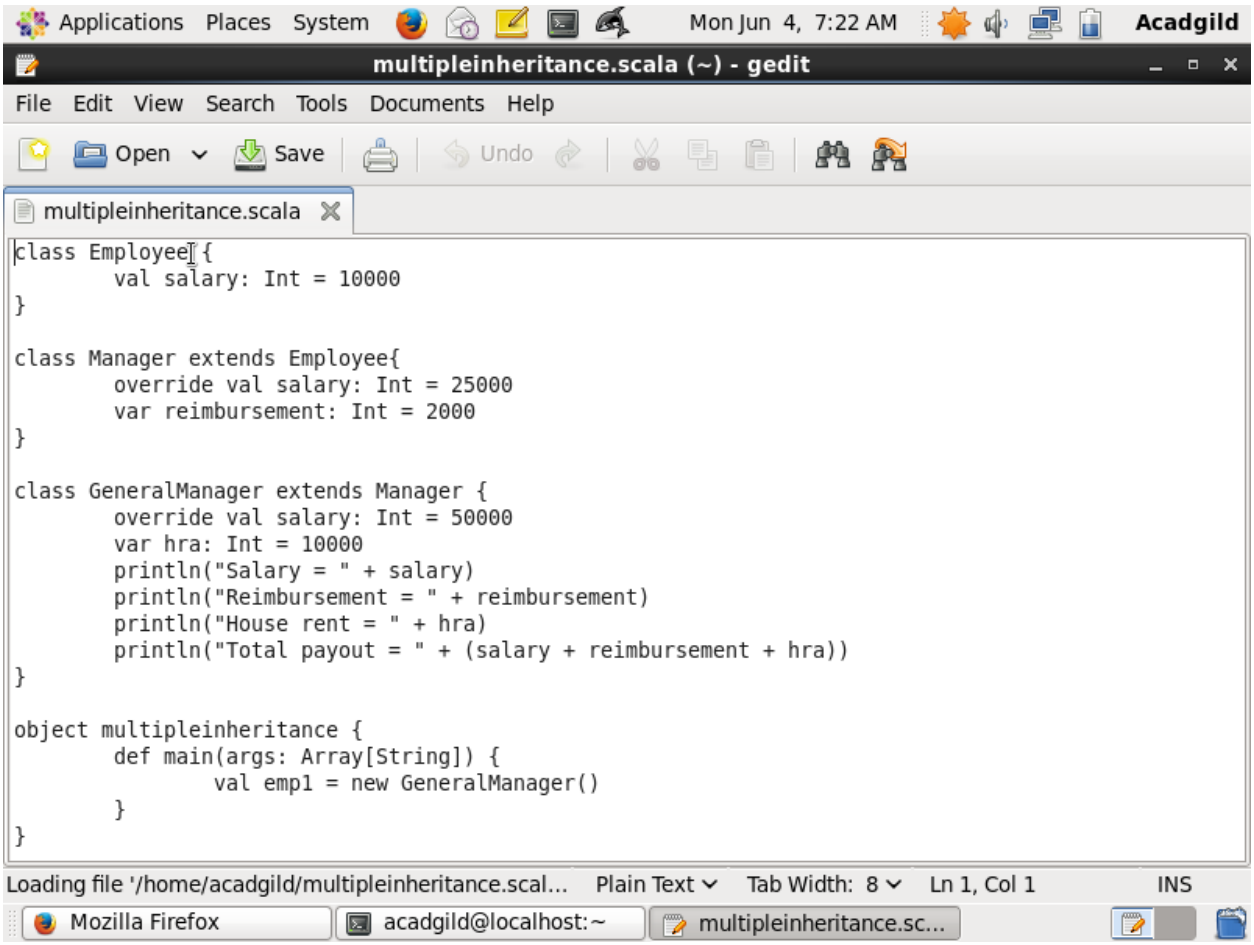


OutPut:

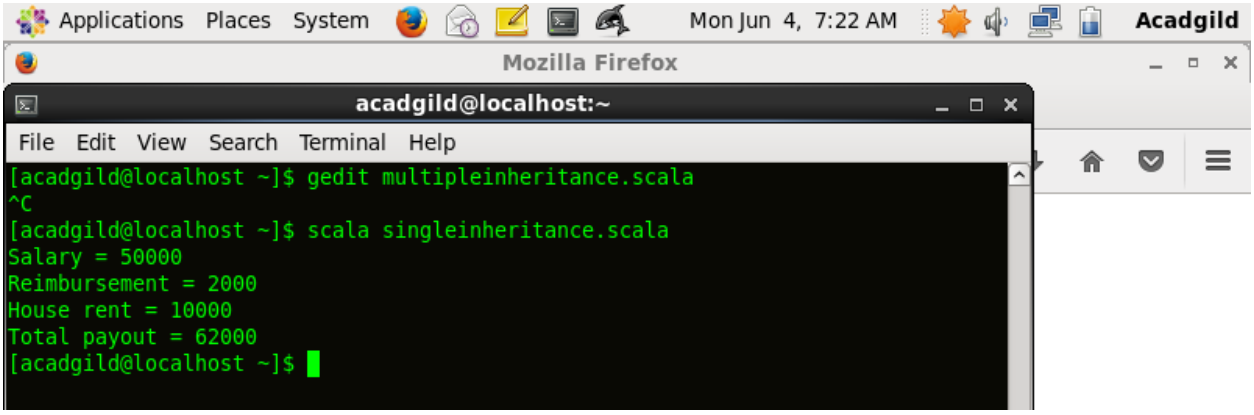


Task 2 :

To show multiple inheritance I have defined one more class GeneralManager which inherits class Manager which in turn inherits Employee.
Both Manager and GeneralManager class have their own implementations for member salary and reimbursement is being inherited in subclass from another subclass showing multiple inheritance.

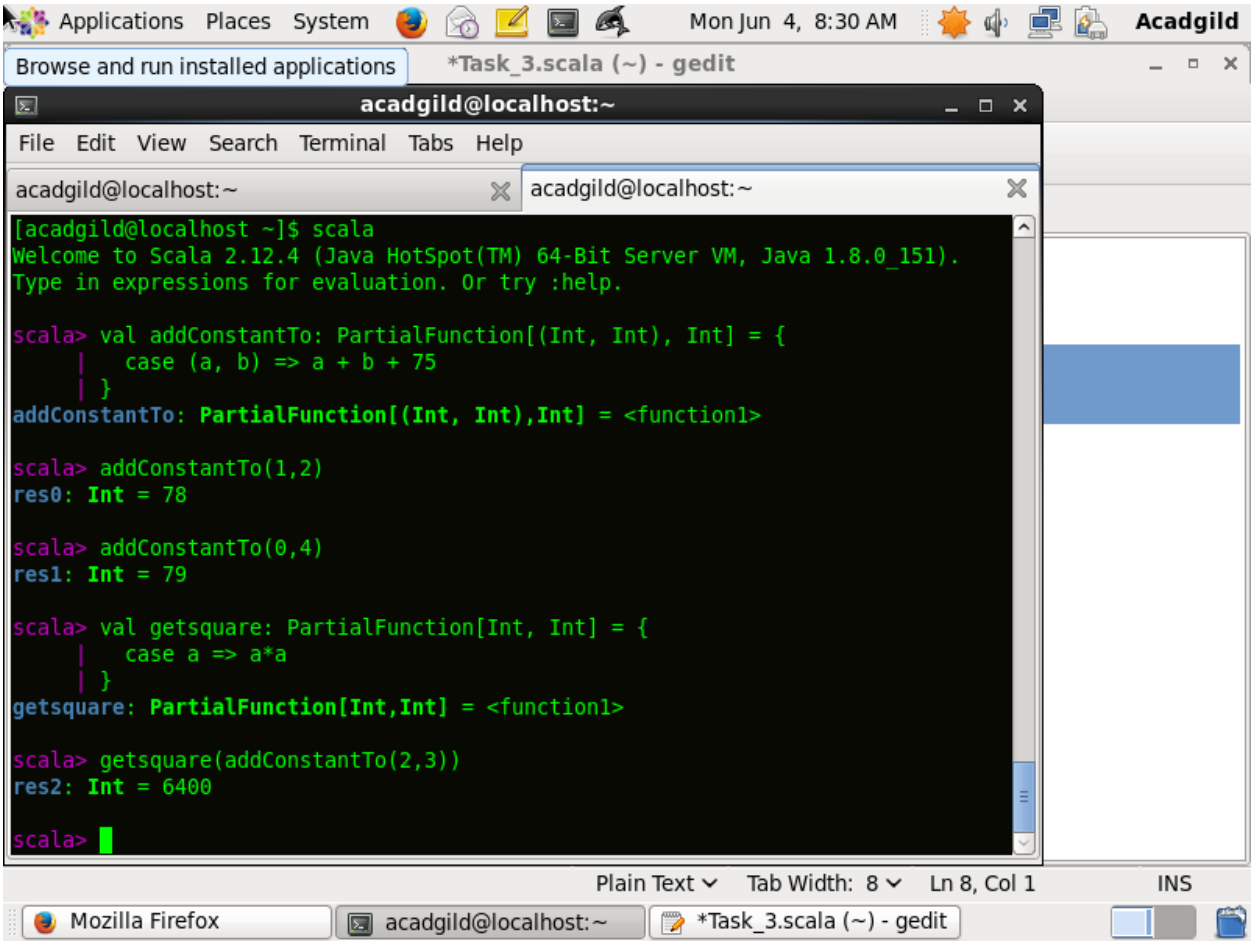


Output:



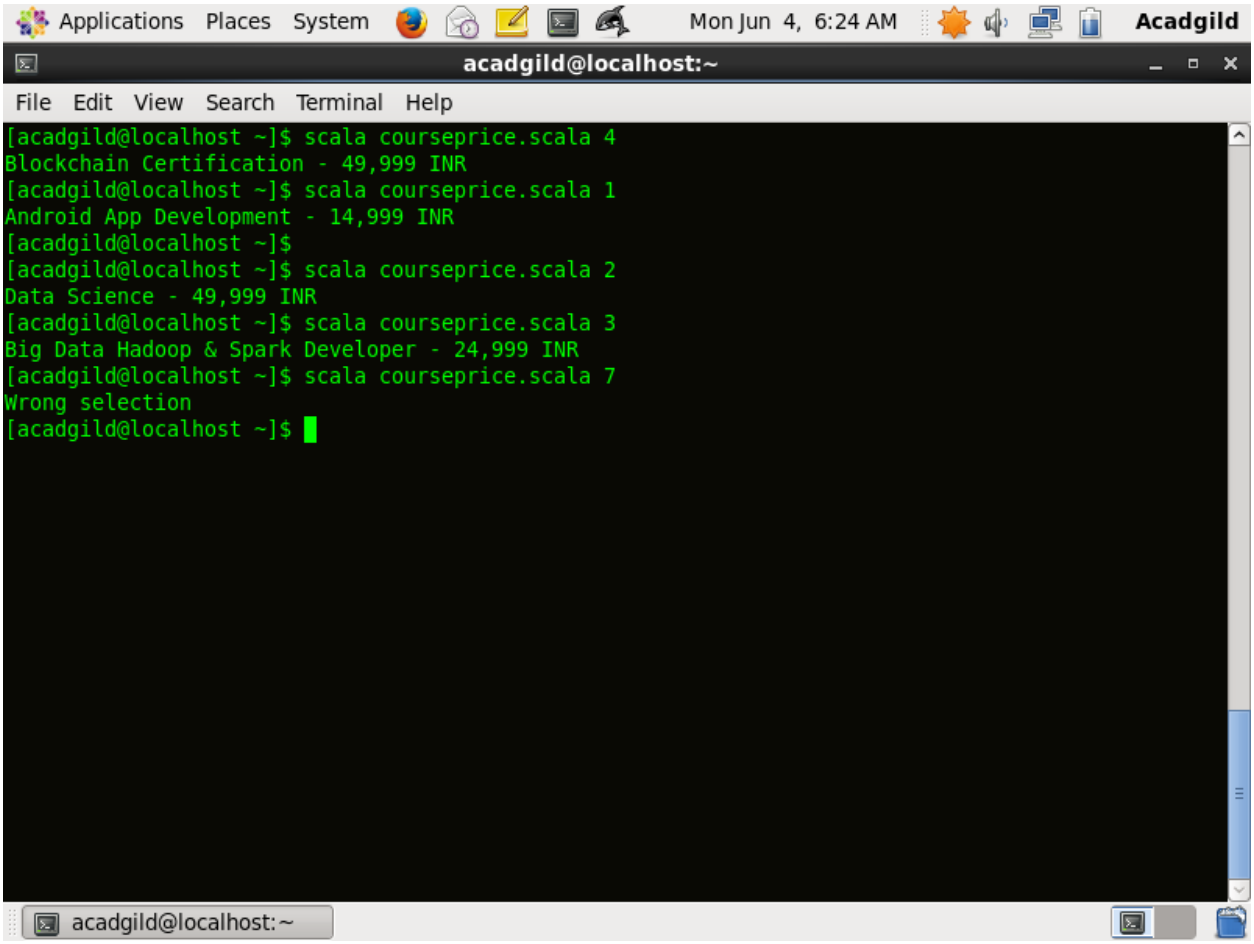
Task 3 :

In addConstanTo partial function the first parameter is passed as tuple of two integers to accept two numbers as input to a sum of the two input numbers and a constant, 75 in this case.
another partial function gives the square so addConstantTo is passed as a parameter to getsquare



Task 4:

My script is stored in courseprice.scala file which use match to find the price of a course. The courses are numbered from 1 to 4 . The input is taken from args.



Code:

courseprice.scala

```
object Courseprice {
        def main(args: Array[String]){
                printprice(args(0).toInt)
        }
        def printprice(n: Int) {
                n match {
                        case 1 =>println("Android App Development - 14,999 INR")
                        case 2 =>println("Data Science - 49,999 INR")
                        case 3 =>println("Big Data Hadoop & Spark Developer - 24,999 INR")
                        case 4 =>println("Blockchain Certification - 49,999 INR")
                        case _ =>println("Wrong selection")
                        }
        }
```