ASSIGNMENT

Task1: Write a simple program to show inheritance in scala.

```
class Employee{
Sol:
                  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()
🧬 acadgild@localhost
 class Programmer extends Employee{
  var bonus:Int = 5000
  println("Salary = "+salary)
  println("Bonus = "+bonus)
      object MainObject{
   def main(args:Array[String]) {
       new Programmer()
 scala>
```

Task2: Write a simple program to show multiple inheritance in scala sol: 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()
    }
}
```

Task3

1. A. Write a partial function to add two inputs and one constant value

```
scala> val SumFunc = (x: Int, y: Int) => x+y+30
SumFunc: (Int, Int) => Int = $$Lambda$1054/1134505351@721bf7ad

scala> SumFunc(10,25)
res3: Int = 65

scala> SumFunc(10,100)
res4: Int = 140

scala> [
```

1. B. Define another function which takes partial function as input and prints the square

```
scala> val sqFunc = (SumFunc: Int) => SumFunc*SumFunc
sqFunc: Int => Int = $$Lambda$1064/519425508@359fa722
scala> sqFunc(SumFunc(10,20))
res6: Int = 3600
scala> sqFunc(SumFunc(5,6))
res7: Int = 1681
scala>
```

<u>Task4</u> Write a program to print the prices of 4 courses of Acadgild