# Assignment 17

## Task1

**Write a simple program to show inheritance in scala**

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

class Programmer extends Employee{        //Programmer inherits the
                                          properties of Employee

   var bonus:Int = 5000
   println("Salary = "+salary)
   println("Bonus = "+bonus)
}

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

## Task2

**Write a simple program to show multiple inheritance in scala**

```scala
class Emp{
   var salary_1 = 10000
}

class Analyst extends Emp{              //Analyst inherits the properties of Emp
   var salary_2 = 20000
}

class Manager extends Analyst{         //Manager inherits the properties of
Analyst
   def show(){
     println("Salary of the manager =" + (salary_1+salary_2))
   }
```

```
}

object Employee_2{
    def main(args:Array[String]){
        var m = new Manager()
        m.show()
    }
}
```

## Task3

**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.**

```
object Add{
  val a =25                              //initialising a constant variable a
  def add(b:Int,c:Int):Int = {  a+b+c    //defining a method for the addition of a
                                         constant number and two variables

}
def sq(x:Int,y:Int, f:(Int,Int)=>Int):Unit = {   //defining a method which takes
                                                 the above method as input

 f(x,y)
  println ("Square is "+ f(x,y)*f(x,y))           //square the result,
                                                 obtained from addition

}

 def main(args: Array[String]) = {               //main method
  val res= sq(5,5,add)             //passing values and the add function to
                                   the square function and storing in a
                                   variable

 }
 }
```

**Task4**

**Write a program to print the prices of 4 courses of Acadgild:**
**Android App Development -14,999 INR**
**Data Science - 49,999 INR**
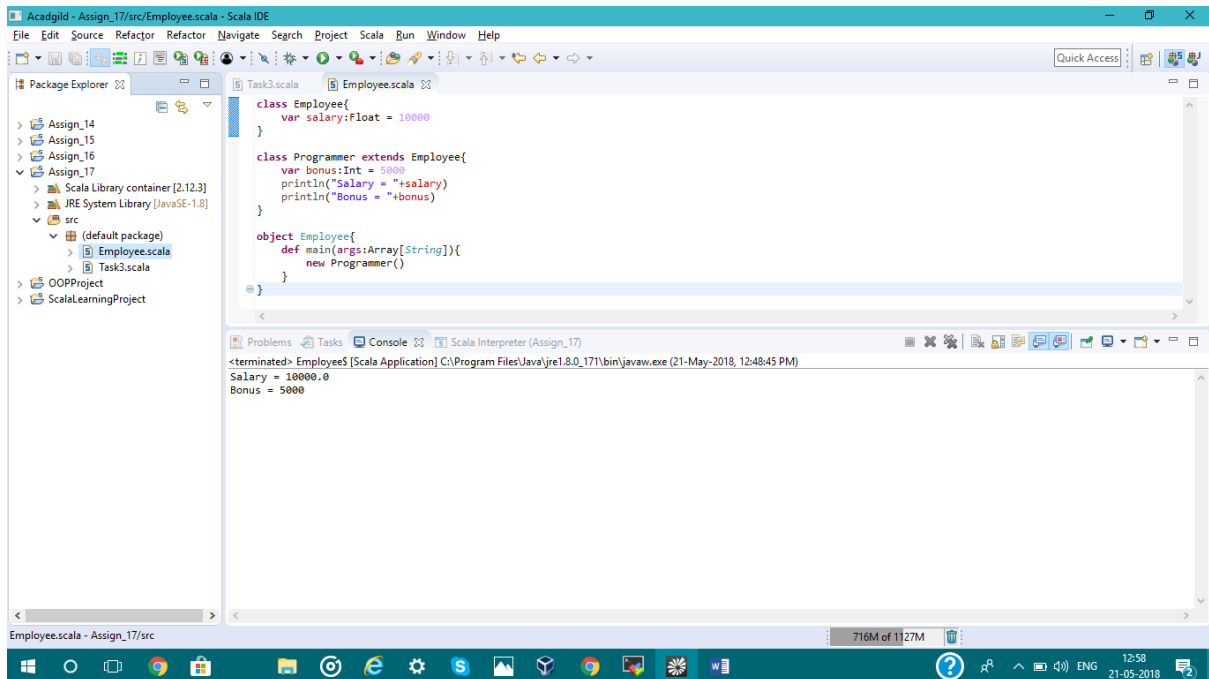**Big Data Hadoop & Spark Developer – 24,999 INR**
**Blockchain Certification – 49,999 INR**
**using match and add a default condition if the user enters any other course.**
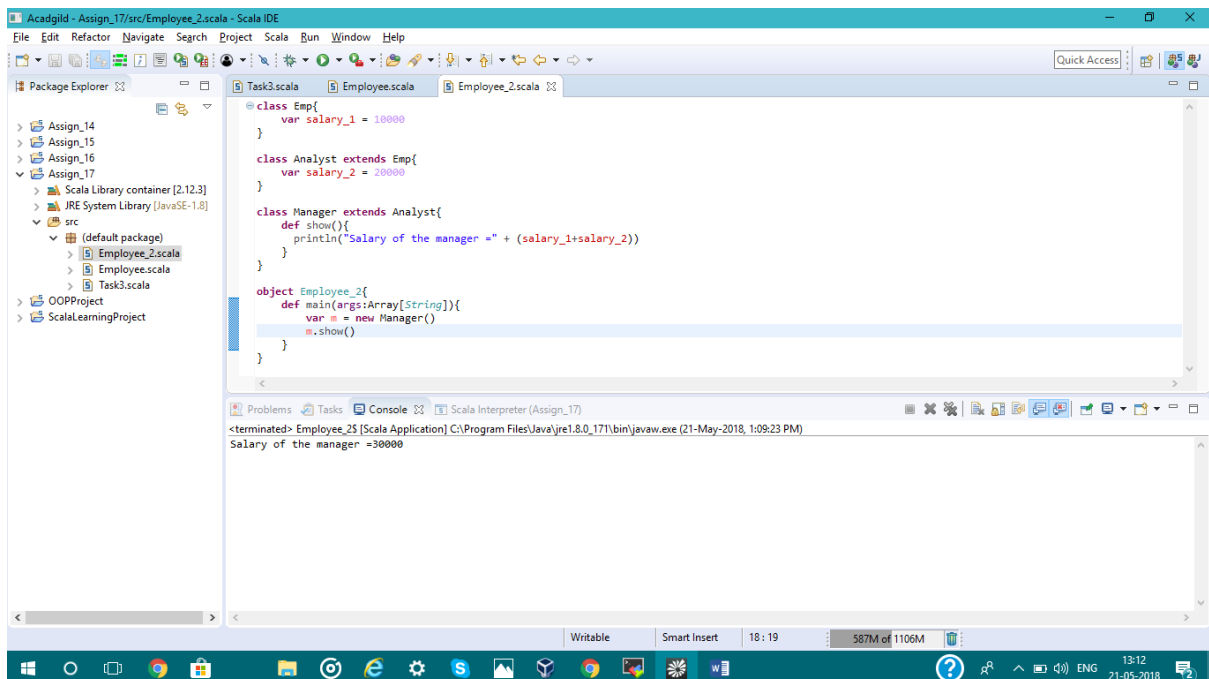
```scala
import java.util.Scanner;
object Task3 {
  def Acadgild(Course : String): Unit =
    Course match                              //match case
    {
    case "Android App Development" => println("Fees is 14999");
    case "Data Science" => println("Fees is 49999");
    case "Big Data Hadoop & Spark Developer" =>println("Fees is 24999");
    case "Blockchain Certification" =>println("Fees is 49999");
    case _ => println("No such course available");

  }
 def main(args: Array[String]) {
  println("Enter the course ")
  val scanner = new java.util.Scanner(System.in)  //for taking input from the
user
  val course = scanner.nextLine();
 val fees = Acadgild(course)
 }
}
```

# Screenshots

## Task1



## Task2

# Task3



```scala
object Add{
    val a =25
  def add(b:Int,c:Int):Int =    a+b+c
  }
  def sq(x:Int,y:Int, f:(Int,Int)=>Int):Unit = {
    f(x,y)
    println ("Square is "+ f(x,y)*f(x,y))
  }

  def main(args: Array[String]) = {
    val res= sq(5,5,add)
    }
}
```

```
<terminated> Add$ [Scala Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (21-May-2018, 3:55:43 PM)
Square is 1225
```

# Task4



```scala
import java.util.Scanner;
object Task3 {

  def Acadgild(Course : String): Unit =
    Course match
    {
    case "Android App Development" => println("Fees is 14999");
    case "Data Science" => println("Fees is 49999");
    case "Big Data Hadoop & Spark Developer" =>println("Fees is 24999");
    case "Blockchain Certification" =>println("Fees is 49999");
    case _ => println("No such course available");

    }

  def main(args: Array[String])  {
    println("Enter the course ")
    val scanner = new java.util.Scanner(System.in)
    val course = scanner.nextLine();
    val fees = Acadgild(course)
    }
  }
```

```
<terminated> Task3$ [Scala Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (21-May-2018, 1:49:07 AM)
Enter the course
Android App Development
Fees is 14999
```