

## Assignment 17

### Task1

#### Write a simple program to show inheritance in 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

```
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 add: PartialFunction[(Int,Int),Int] = {           //declaring a partial function
    case (a,b)=>7+a+b;                                  //3 variables with 7 as the
constant number
  }

  def sq(x:Int):Unit = {                                //defining another method with
one argument
    println ("Square is "+ x*x)                          //squaring the result
  }

  def main(args: Array[String]) = {
    val res= sq({add(2,3)})                               //passing the partial function as an
input to the method 'sq' and storing it in variable 'res'
  }

}

```

#### 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**

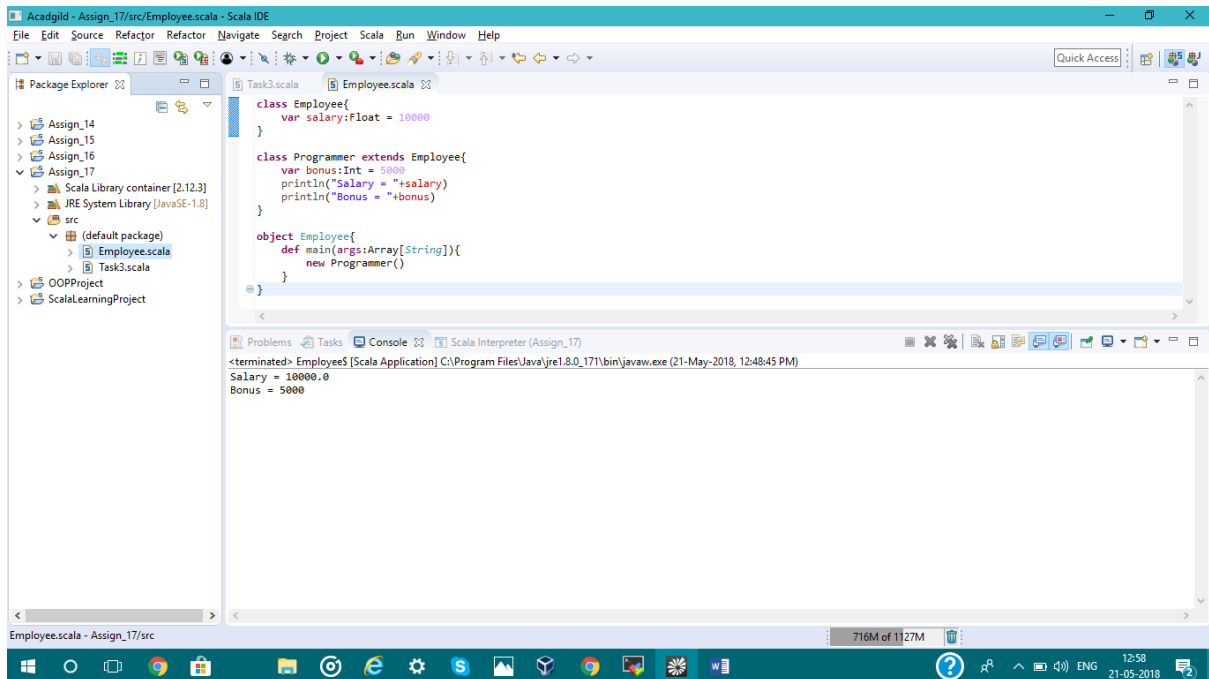
**Blockchain Certification – 49,999 INR**

**using match and add a default condition if the user enters any other course.**

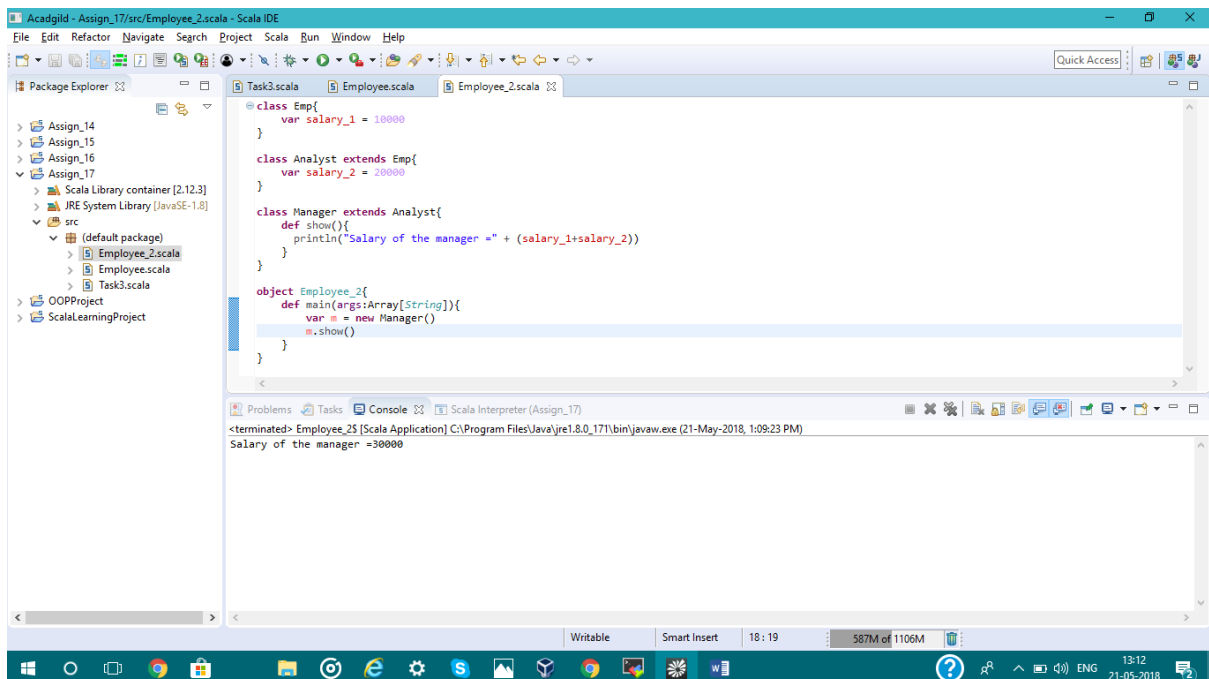
```
import java.util.Scanner;
object Task3 {
  def Acadgild(Course : String): Unit =
    Course match                                //match case
    {
      case "Android App Development" => println("Fees is 14999");
      case "Data Science" => println("Fees is 49999");
      case "Big Data Hadoop & 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

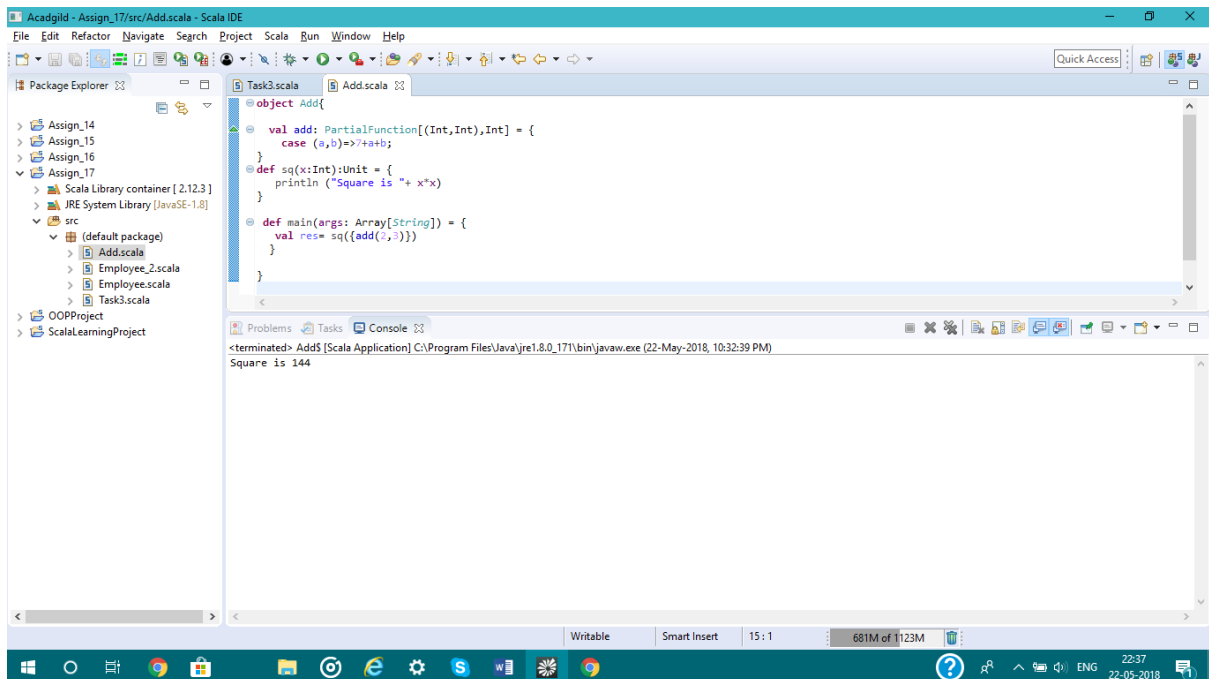
## Task1



## Task2



## Task3

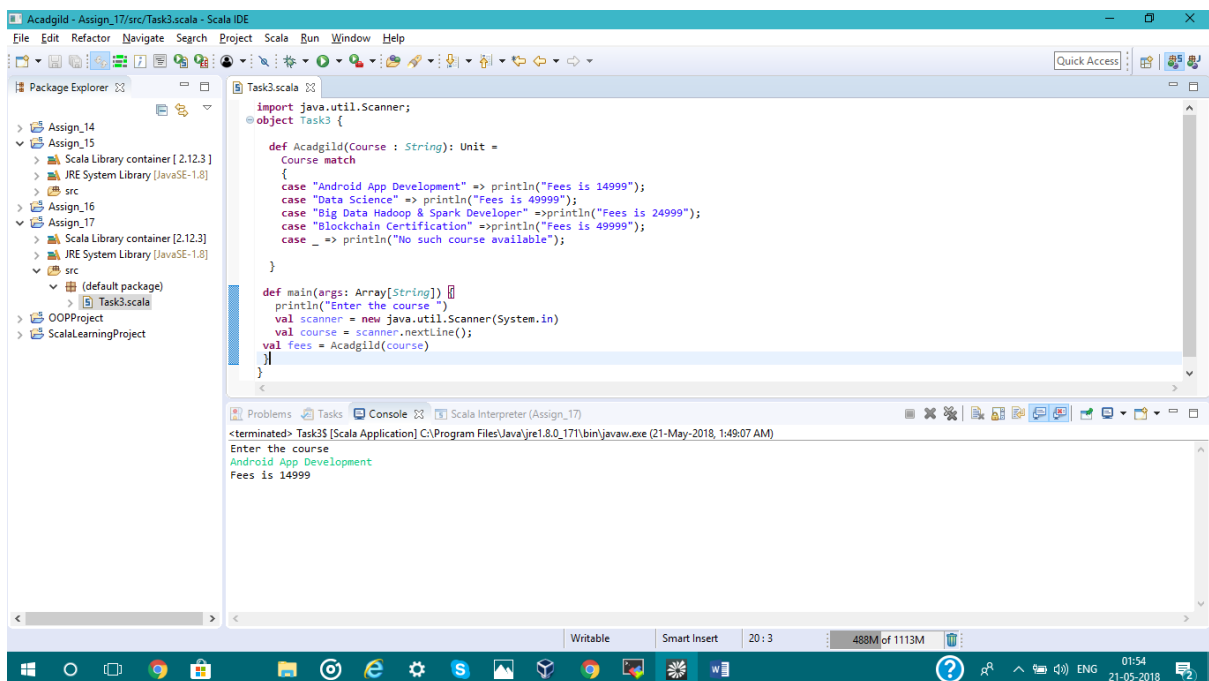


The screenshot shows the Scala IDE interface. The Package Explorer on the left lists several assignments and a project named 'ScalaLearningProject'. The main editor displays 'Task3.scala' with the following code:

```
object Add {  
  val add: PartialFunction[(Int,Int),Int] = {  
    case (a,b) => 7+a+b;  
  }  
  def sq(x: Int): Unit = {  
    println("Square is " + x*x)  
  }  
  def main(args: Array[String]) = {  
    val res = sq((add(2,3)))  
  }  
}
```

The Console at the bottom shows the output: <terminated> Add5 [Scala Application] C:\Program Files\Java\jre1.8.0\_171\bin\javaw.exe (22-May-2018, 10:32:39 PM) Square is 144

## Task4



The screenshot shows the Scala IDE interface. The Package Explorer on the left lists several assignments and a project named 'ScalaLearningProject'. The main editor displays 'Task3.scala' with the following code:

```
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)  
  }  
}
```

The Console at the bottom shows the output: <terminated> Task35 [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