# Assignment – 17.1 Scala 4

Task 1: Write a simple program to show inheritance in scala.

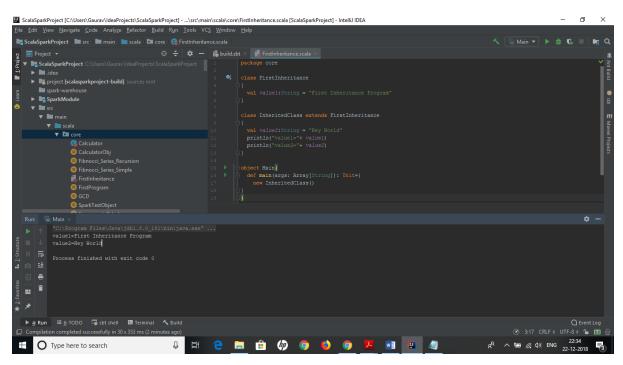
#### Program:

```
class FirstInheritance
{
    val value1:String = "First Inheritance Program"
}

class InheritedClass extends FirstInheritance
{
    val value2:String = "Hey World"
    printIn("value1="+ value1)
    printIn("value2="+ value2)
}

object Main{
    def main(args: Array[String]): Unit={
        new InheritedClass()
}
}
```

#### Output:



Task 2: Write a simple program to show multiple inheritance in scala.

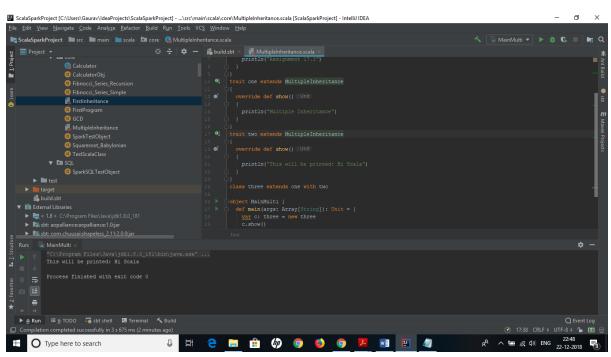
Program:

```
package core

trait MultipleInheritance
{
    def show()
    {
        printIn("Assignment 17.1")
    }
}
trait one extends MultipleInheritance
{
    override def show()
    {
        printIn("Multiple Inheritance")
    }
}
trait two extends MultipleInheritance
{
    override def show()
    {
        printIn("This will be printed: Hi Scala")
    }
}
class three extends one with two

object MainMulti {
    def main(args: Array[String]): Unit = {
        var c: three = new three
        c.show()
    }
}
```

# Output:

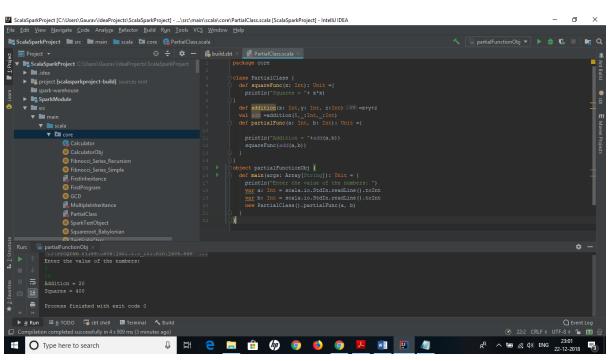


Task 3: Write a partial function to add three numbers in which one number is constant and two numbers can be passed as inputs and define another method which can take the partial function as input and squares the result.

#### Program:

```
class PartialClass {
  def squareFunc(x: Int): Unit = {
      println("Squares = "+ x*x)
  }
  def addition(x: Int,y: Int, z:Int) = x+y+z
  val add = addition(5,_:Int,_:Int)
  def partialFunc(a: Int, b: Int): Unit = {
      println("Addition = "+add(a,b))
      squareFunc(add(a,b))
    }
  }
  object partialFunctionObj {
    def main(args: Array[String]): Unit = {
      println("Enter the value of the numbers: ")
      var a: Int = scala.io.Stdln.readLine().toInt
      var b: Int = scala.io.Stdln.readLine().toInt
      new PartialClass().partialFunc(a, b)
    }
}
```

## Output:



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.

### Program:

```
object CoursePatternMatch
{
    def result(x: String): String = x match {
        case "Android" => ("Android App Development Course Price -14,999 INR")
        case "Data Science" => ("Data Science Course Price - 49,999 INR")
        case "Big Data Hadoop & Spark" => ("Big Data Hadoop & Spark Developer Course Price - 24,999 INR")
        case "Blockchain Certification" => ("Blockchain Certification Price - 49,999 INR")
        case _ => ("This course is not available")
    }
    def main(args: Array[String]): Unit = {
        print(result("Big Data Hadoop & Spark"))
    }
}
```

## Output:

