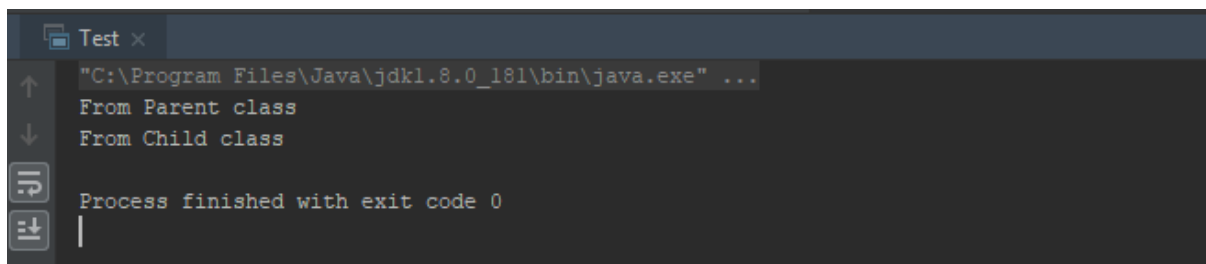# Assignment Submission- Session 17

Task 1

Write a simple program to show inheritance in Scala.

```scala
class Parent {
  def parentMethod() = {
    println("From Parent class")
  }
}

class Child extends  Parent {

  def childMethod() = {
    println("From Child class")
  }

}

object Test {

  def main(args: Array[String]): Unit = {
    val obj = new Child
    obj.parentMethod()
    obj.childMethod()
  }
}
```

Output:

```
Test ×
  "C:\Program Files\Java\jdk1.8.0_181\bin\java.exe" ...
  From Parent class
  From Child class

  Process finished with exit code 0
```

Task 2

Write a simple program to show multiple inheritance in Scala.

```scala
class GrandParent {
  def grandParentMethod() = {
    println("From Grand Parent class")
  }
}

class Parent1 extends  GrandParent {
  def parentMethod() = {
    println("From Parent class")
  }
}

class Child1 extends  Parent1 {

  def childMethod() = {
    println("From Child class")
  }

}

object Test2 {

  def main(args: Array[String]): Unit = {
    val obj = new Child1
    obj.grandParentMethod
    obj.parentMethod
    obj.childMethod
  }
}
```

Output:

```
From Grand Parent class
From Parent class
From Child class

Process finished with exit code 0
```

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.

```
class PartialFuncExample {

  def addFunc(a: Int, b: Int, c: Int) : Int = a + b + c

  def partialSum(x: Int, y: Int) : Unit = {

    val add = addFunc(_: Int, _: Int, 10)

    println("Sum of numbers: "+ add(x, y))

    def squeredNum( number : Int) = number * number

    val squareResult = squeredNum(add(x, y))

    println("Square of result: "+ squareResult)

  }

}

object  partFuncObj {

  def main(args: Array[String]): Unit = {
    new PartialFuncExample().partialSum(4, 5)
  }
}
```

Output:

```
"C:\Program Files\Java\jdk1.8.0_181\bin\java.exe" ...
Sum of numbers: 19
Square of result: 361

Process finished with exit code 0
```

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 cour

```scala
object courseDetails {

  def courseFee( name: String) : String = name match
    {
      case "Android App Development" => "14,999 INR"
      case "Data Science" => "49,999 INR"
      case  "Big Data Hadoop & Spark Developer" => "24,999 INR"
      case "Blockchain Certification" => "49,999 INR"
      case _  => "NOT AVAILABLE"

  }

  def main(args: Array[String]): Unit = {

    println(courseFee("Data Science"))

    println(courseFee("Web Development"))

  }

}
```

Output:


```
"C:\Program Files\Java\jdk1.8.0_181\bi
49,999 INR
NOT AVAILABLE

Process finished with exit code 0
```