

Assignment 15.2

Problem Statement :-

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.

4. Write a program to print the prices of 4 courses of Acadgild: Android-12999, Big Data Development-17999, Big Data Development-17999, Spark-19999 using match and add a default condition if the user enters any other course.

Solution:-

- **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 ProgramPartialFunc {  
  
    def squareFunc(n: Int) {  
  
        println("Square: " + n * n)  
  
    }  
  
    def adder(m: Int, n: Int, p: Int) = m + n + p  
  
    def partialFunc(x: Int, y: Int) {  
  
        val add = adder( _: Int, 20, _: Int)  
  
        println("-----")  
  
        println("Addition: "+add(x, y))  
  
        squareFunc(add(x, y))  
  
        println("-----")  
    }  
}
```

```
}  
  
}  
  
object PartialFunc_Task3 {  
  def main(args: Array[String]) {  
    println("Enter numbers")  
  
    var x: Int = scala.io.StdIn.readLine().toInt;  
    var y: Int = scala.io.StdIn.readLine().toInt;  
    new ProgramPartialFunc().partialFunc(x, y)  
  }  
}
```

```

1  class ProgramPartialFunc {
2      def squareFunc(n: Int) {
3          println("Square: " + n * n)
4      }
5  }
6      def adder(m: Int, n: Int, p: Int) = m + n + p
7      def partialFunc(x: Int, y: Int) {
8          val add = adder( _: Int, 20, _: Int)
9          println("-----")
10         println("Addition: " + add(x, y))
11         squareFunc(add(x, y))
12         println("-----")
13     }
14 }
15
16
17 object PartialFunc_Task3 {
18
19     def main(args: Array[String]) {
20
21         println("Enter numbers")
22
23         var x: Int = scala.io.StdIn.readLine().toInt;
24
25         var y: Int = scala.io.StdIn.readLine().toInt;
26
27         new ProgramPartialFunc().partialFunc(x, y)
28     }
29 }
30

```

Run PartialFunc_Task3

```

"C:\Program Files\Java\jdk1.8.0_144\bin\java" ...
Enter numbers
10
30
-----
Addition: 60
Square: 3600
-----
Process finished with exit code 0

```

- Program to print the prices of 4 courses of Acadgild: Android-12999,Big Data Development-17999,Big Data Development-17999,Spark-19999 using match and add a default condition if the user enters any other course.

```
122
123 def result(x: String): String = x match {
124     case "Android" => ("Android is 12999/-")
125     case "Big Data Development" => ("Big Data Development is 17999")
126     case "Big Data Development" => ("Big Data Development is 17999")
127     case "Spark" => ("Spark is 19999")
128     case _ => ("Oops! The course is yet not available")
129 }
```

Output:-

130		129	
131	result("Android")	130	
132	result("Spark")	131	res8: String = Android is 12999/-
133	result("Java")	132	res9: String = Spark is 19999
134		133	res10: String = Oops! The course is yet not available
135		134	