Session 15 : SCALA

Assignment 2

**Problem Statement**

1. 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.

1. 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:-**

Scala Project - 

Code:-

1. 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 – Problem1.scala

/\*\*

\* This class provides a partial function to all two integers and constant

\* and another method to return square of integer

\*

\*/

**class** Problem1 {

//Defining constant integer

**val** constantInt: Int = 10;

/\*\*

\* Method to add two integers and return their sum

\*/

**def** add(a: Int, b: Int): Int = a + b;

/\*\*

\* Partial function to add two parameters and constant

\*/

**object** sumInt **extends** Function2[Int, Int, Int] {

**override** **def** apply(x: Int, y:Int): Int = add(add(x,y), constantInt)

}

/\*\*

\* Method to return square of input parameter

\*/

**def** squareInt(i : Int):Int={

**var** retVal : Int = i\*i;

**return** retVal;

}

}

**object** MainObj{

**def** main(args:Array[String]){

**var** Problem1= **new** Problem1();

//Testing partial function

println("Partial function returns : "+Problem1.sumInt(5,6));

println("Square function returns : "+Problem1.squareInt(Problem1.sumInt(5,6)));

}

}

Output:-







1. 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.

Class- Problem2.scala

/\*\*

\* this class provides method matchCourses to return price of course entered

\*/

**class** Problem2 {

**def** matchCourses(x: String): Int = x.toUpperCase() **match** {

**case** "ANDROID" => 12999

**case** "BIG DATA DEVELOPMENT" => 17999

**case** "SPARK" => 19999

**case** \_ => 0

}

}

//Main object

**object** MainDemo {

**def** main(args: Array[String]) {

**while**( **true** )

{

**val** input: String = ~~readLine~~("enter course> ");

**var** obj = **new** Problem2();

**var** price: Int = obj.matchCourses(input);

**if**(price==0)

{

println("Course not found. Closing this app.");

**return**;

}

**else**

{

println("Price of "+input+" is " + price);

}

}

}

}

Output:-

