ACD\_BDD2.3\_Session\_15\_Assignment\_2

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.

**class** PartiallyAppliedFunctions() {

**private** **def** sum(i1 : Int, i2 : Int) = {

i1 + i2 + 1

}

**private** **def** square(i1 :Int) = {

i1 \* i1

}

**def** getSum2arg() : (Int, Int) => Int = {

sum( \_ : Int, \_ : Int)

}

**def** getSquarearg() : (Int) => Int = {

square( \_ : Int)

}

}

**object** PartiallyAppliedFunction {

**val** partiallyAppliedFunctions = **new** PartiallyAppliedFunctions()

**val** r = partiallyAppliedFunctions.getSum2arg()(1, 2)

println( partiallyAppliedFunctions.getSum2arg()(1, 2))

println(partiallyAppliedFunctions.getSquarearg()(r))

}

**scala> val partiallyAppliedFunctions = new PartiallyAppliedFunctions()**

partiallyAppliedFunctions: PartiallyAppliedFunctions = PartiallyAppliedFunctions@3240b2a4

**scala> val r = partiallyAppliedFunctions.getSum2arg()(1, 2)**

r: Int = 4

**scala> println( partiallyAppliedFunctions.getSum2arg()(1, 2))**

4

**scala> println(partiallyAppliedFunctions.getSquarearg()(r))**

16

2. Write a program to print the prices of 4 courses of

Acadgild:

Android-12999,

Big Data Development-17999,

Big Data Administartion-17999,

Spark-19999

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

**object** AcadgildCourse **extends** App {

**val** courseName= Map(1 -> "Android",

2 -> "Big Data Development",

3 -> "Big Data Administartion",

4 -> "Spark")

**for**(i <- courseName.keys) {

println( i)

i **match**{

**case** 1 => println(courseName(i) + " price : 12999")

**case** 2 => println(courseName(i) + " price : 17999")

**case** 3 => println(courseName(i) + " price : 17999")

**case** 4 => println(courseName(i) + " price : 19999")

**case** \_ => println("Unknown course")

}

}

}

Output:-

defined object AcadgildCourse

1

Android price : 12999

2

Big Data Development price : 17999

3

Big Data Administartion price : 17999

4

Spark price : 19999

courseName: scala.collection.immutable.Map[Int,String] = Map(1 -> Android, 2 -> Big Data Development, 3 -> Big Data Administartion, 4 -> Spark)