SCALA TUTORIAL 3

Visit my GitHub Repository:

https://github.com/virajSandakelum/SCS2204-FUNCTIONAL-PROGRAMMING

```
object Question_1 {
    def areaOfDisk(r:Double): Double = math.Pi * r * r
    def main(args: Array[String]): Unit = {
        println("The area of a disk with radius 5 :" +
        areaOfDisk(5))

        print("Enter the radius of the Disk:")
        val radius = scala.io.StdIn.readFloat()
        println("The area of a disk with radius "+ radius + " :" +
        areaOfDisk(radius))
    }
}
```

Question 02

```
object Question_2 {
  def celsiusToFahrenheit(celsius :Double): Double =
  {
    celsius * 1.8000 + 32.00
  }

def main(args: Array[String]): Unit = {
    println(celsiusToFahrenheit(35))

    print("Enter the Celsius Temperature :")
    val celsius = scala.io.StdIn.readFloat()
    println(celsiusToFahrenheit(celsius))
  }
}
```

```
object Question_3 {
   def volumeOfSphere(r:Double):Double = (4/3) * math.Pi * r * r
   * r

   def main(args:Array[String]):Unit=
   {
      println(volumeOfSphere(5))

      print("Enter the radius of a sphere:")
      var radius = scala.io.StdIn.readDouble()
      println(volumeOfSphere(radius))
   }
}
```

```
def priceForAllBooks(numberOfCopies:Int):Double = 24.95 *
numberOfCopies
   def getDiscount(totalBookPrice:Int):Double = totalBookPrice
   def shipCost(numberOfCopies:Int):Double= numberOfCopies
     case x if x <= 50 => numberOfCopies * 3
   def totalWholesaleCost(numberOfCopies:Int):Double=
     priceForAllBooks(numberOfCopies) +
shipCost(numberOfCopies) - getDiscount(numberOfCopies)
   def main(args:Array[String]):Unit=
     println(totalWholesaleCost(60))
     val numberOfBook = scala.io.StdIn.readInt()
     println("Total wholesale cost for book copies:" +
totalWholesaleCost(numberOfBook) )
```