Scala Lab Session 01

22001281

Area of a disk with radius r is Pi r*r. What is the area of a disk with radius 5?

```
scala> def sq(num:Float) = num * num
def sq(num: Float): Float

scala> def area(r:Float) = java.lang.Math.PI * sq(r)
def area(r: Float): Double

scala> area(5)
val res0: Double = 78.53981633974483

scala> |
```

The temperature is 35C; convert *this* temperature into Fahrenheit. $^{\circ}F = ^{\circ}C * 1.8000 + 32.00$

The volume of a sphere with radius r is 4/3 Pi r^3 . What is the volume of a sphere with radius 5?

Suppose the cover price of a book is Rs. 24.95, but bookstores get a 40% discount. Shipping costs Rs. 3 for the first 50 copies and 75 cents for each additional copy. What is the total wholesale cost for 60 copies?

I run 2 km at an easy pace (8 min per km), then 3 km at Tempo (7 min per km) and 2 km at easy pace again to reach home. What is the total running time

```
scala> def ep(x:Int):Int = x*8
def ep(x: Int): Int

scala> def tempo(y:Int):Int = y*7
def tempo(y: Int): Int

scala> ep(2) + tempo(3) + (2)
val res3: Int = 39

scala>
```