

## Practical 01 – 22001956

1.

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

scala> area(5)
val res1: Double = 78.53981633974483

scala>
```

2.

```
scala> def converttofah(c: Double):Double = (c*1.8)+32
def converttofah(c: Double): Double

scala> converttofah(35)
val res2: Double = 95.0

scala> _
```

3.

```
scala> def volumeofsphere(r: Double): Double = 4/3 * java.lang.Math.PI * r * r * r
def volumeofsphere(r: Double): Double

scala> volumeofsphere(5)
val res3: Double = 392.69908169872417

scala> _
```

4.

```
scala> def price(n:Int, p:Double) = n * p
def price(n: Int, p: Double): Double

scala> def discount(p:Double) = 40/100*p
def discount(p: Double): Double

scala> def totalprice(n:Int, p:Double) = price(n) - (n * discount(p))
      ^
      error: not enough arguments for method price: (n: Int, p: Double): Double.
      Unspecified value parameter p.

scala> def totalprice(n:Int, p:Double) = price(n,p) - (n * discount(p))
def totalprice(n: Int, p: Double): Double

scala> def shippingcost(n:Int) = if (n<=50) 3*n else ((3*50) + (n-50)*0.75)
def shippingcost(n: Int): Double

scala> def totalwholesalecost(n:Int, p:Double) = totalprice(n,p) + shippingcost(n)
def totalwholesalecost(n: Int, p: Double): Double

scala> totalwholesalecost(60, 24.95)
val res4: Double = 1654.5

scala> _
```

5.

```
scala> def easypacetime(distance:Int) = distance * 8
def easypacetime(distance: Int): Int

scala> def tempotime(distance:Int) = distance * 7
def tempotime(distance: Int): Int

scala> val totalrunningtime = easypacetime(2) + tempotime(3) + easypacetime(2)
val totalrunningtime: Int = 53

scala> totalrunningtime
val res5: Int = 53

scala> _
```