Scala Tutorial 2 – 20001495

1.& 2.

```
C:\Users\Anjali>scala
Welcome to Scala 3.1.3 (18.0.1.1, Java Java HotSpot(TM) 64-Bit Server VM).
Type in expressions for evaluation. Or try :help.

scala> var i = 2
var i: Int = 2

scala> var j = 2
var j: Int = 2

scala> var k = i
var k: Int = 2

scala> var m = 5
var m: Int = 5

scala> var n = 5
var n: Int = 5

scala> var f = 12.0f
var f: Float = 12.0

scala> var g = 4.0f
var g: Float = 4.0

scala> var c = 'X'
var c: Char = X

scala>
```

3. part 1

```
scala> k+12*m
val res0: Int = 62

scala> m/j
val res1: Int = 2

scala> n%j
val res2: Int = 1

scala> m/j*j
val res3: Int = 4

scala> f+10*5+g
val res4: Float = 66.0

scala> (i+1)*n
val res5: Int = 15
```

3. part 2

```
C:\Users\Anjali>scala
Welcome to Scala 3.1.3 (18.0.1.1, Java Java HotSpot(TM) 64-Bit Server VM).
Type in expressions for evaluation. Or try :help.

scala> var a = 2; var b = 3; var c = 4; var d = 5; var k = 4.3f
var a: Int = 2
var b: Int = 3
var c: Int = 4
var d: Int = 5
var k: Float = 4.3

scala> (b-1)*a+c*d;d=d-1;b=b-1
val res0: Int = 24
d: Int = 4
b: Int = 2

scala> a=a+1
a: Int = 3

scala> (-2)*(g-k)+c
-- [E006] Not Found Error: ---------------------------------------------------
--
1 |(-2)*(g-k)+c
  |      ^
  |      Not found: g
  |
  | longer explanation available when compiling with `-explain`
1 error found

scala> c = c+1
c: Int = 5

scala> c = (c+1)*a;a=a+1
c: Int = 18
a: Int = 4

scala>
```

4. a.

```
scala> def salary(OT:Int, wHours:Int): Float=(OT*85+wHours*250)-(OT*85+wHours*
250)*0.12f
def salary(OT: Int, wHours: Int): Float

scala> salary(30, 40)
val res0: Float = 11044.0

scala> _
```

4. b.

```
scala> def att(price:Int): Int=120+(15-price)/5*20;
def att(price: Int): Int

scala> def profit(price:Int): Int=(price*att(price))-(500+att(price)*3);
def profit(price: Int): Int

scala> profit(5)
val res1: Int = -180

scala> profit(10)
val res2: Int = 480
```

```
scala> print(profit(20), profit(25), profit(30));
(1200,1260,1120)~
```