

Scala Tutorial 2

1. Question 1 , 2 , 3 (a)

```
object answers{
  def main(args: Array[String])={

    //question 1 and 2 answers
    //println("Question 1 and 2")
    var k = 2; var i = 2; var j = 2;
    var m = 5; var n = 5;
    var f = 12.0;
    var g = 4.0;
    var c = 'X';

    //question 3 answers
    println("Question 3")
    println(k + 12 * m)
    println(m / j)
    println(n % j)
    println(m / j * j)
    println(f + 10*5 +g)
    // println(++i * n)  scala doesn't support increment and
    decrement operators

  }
}
```

2. Question 3 Comparison Java with Scala

```
3. object quest3{
4.
5.     def main(args: Array[String]): Unit = {
6.
7.         //question 3 comparison java with scala
8.         var(a,b,c,d)=(2,3,4,5);
9.         var(k,g) = (4.3f,4.0f);
10.            //println(--b*a+c*d--);      not support -- in scala
11.            //println(a++);              not support ++ in scala
12.            println (-2*(g-k) +c);      // 4.6000004
13.            //println (c=c++);          not support ++ in scala
14.            //println (c=++c*a++);      not support ++ in scala
15.
16.
17.     }
18.
19.     /*
20.     public class q3 {
21.         public static void main(String[] args) {
22.
23.             int a = 2, b = 3, c = 4, d = 5;
24.             float k = 4.3f, g = 4.0f;
25.             // java supports increment and decrement operators
26.
27.             System.out.println(--b * a + c * d--);
28.             System.out.println(a++);
29.             System.out.println(-2 * (g - k) + c);
30.             System.out.println(c = c++);
31.             System.out.println(c = ++c * a++);
32.
33.         }
34.     }*/
35.
36. }
```

3. Question 4

```
object question4{

  def main(args:Array[String])={

    //question 4 (a)
    println("\nQuestion 4 (a) ")
    def grossSalary(nh:Int,ot:Int):Int = (nh*250)+(ot*85)
    def tax(grossA:Int):Int=(grossA*.12).toInt
    def netPay(nh:Int,ot:Int):Int=grossSalary(nh,ot)-
    tax(grossSalary(nh,ot))

    println(netPay(30,50))

    //question 4 (b)
    println("\nQuestion 4 (a) ")
    def count(tPrice:Int)=120 + (15-tPrice)/5*20
    def income(tPrice:Int):Int = count(tPrice)*tPrice
    def cost(tPrice:Int):Int=500+(3*count(tPrice))
    def profit(tPrice:Int):Int=income(tPrice)-cost(tPrice)

    println(profit(20))

  }
}
```