

Scala Tutorial 2

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

    //question 2 answers
    println("Question 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("\nQuestion 3")
    printf("a) %d\n", k+12*m)
    printf("b) %.2f\n", m.toFloat/j.toFloat)
    printf("c) %d\n", n%j)
    printf("d) %.2f\n", m.toFloat/j.toFloat*j.toFloat)
    printf("e) %.2f\n", f+10*5+g)
    i+=1
    printf("f) %d\n", (i)*n)

    // second part of the question 3 can't be completed
    // because scala doesn't have increment decrement operators

    //question 4 answers
    println("\nQuestion 4")
    printf("part a ")
    def grossSal(normal: Int, ot: Int):Int = (normal*250)+(ot*85)
    def tax(gross: Int): Int = (gross*.12).toInt
    def takehome(normal: Int, ot: Int):Int = grossSal(normal,ot) -
tax(grossSal(normal,ot));
    printf("answer : %d",takehome(40,30))

    printf("\npart b ")
    def attendance(price: Int):Int = 120 + (15 - price)/5*20
    def earn(price: Int):Int = price*attendance(price)
    def cost(price: Int):Int = 500 + attendance(price)*3
    def profit(price: Int):Int = earn(price) - cost(price)
    printf("answer : %d",profit(24))
  }
}
```