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## **Scala Tutorial 2**

Q1) & Q2)

```
def main(args: Array[String])={
    var k,i,j:Int=2;
    var m,n:Int=5;
    var f=12.0f;
    var g=4.0f;
    var c='X';

    println(k+12*m);
    println(m/j);
    println(m/j);
    println(m/j);
    println(m/j*j);
    println(f+12*5+g);
    println((i+1)*n);
}
```

```
def main(args: Array[String])= {
      var a=2;
      var b=3;
      var c=4;
      var d=5;
      var k=4.3f;
      var g=4.0f;
      b-=1;
      println(b*a+c*d);
      d-=1;
      println(a);
      a+=1;
      println((-2)*(g-k)+c);
      println(c);
      c+=1;
      c+=1;
      println(c*a);
      a+=1;
```

## Q4) part a)

```
def normal(x:Double):Double=x*250

def ot(x:Double):Double=x*85

def income(x1:Double,x2:Double):Double=normal(x1)+ot(x2)

def tax(x1:Double,x2:Double):Double=income(x1,x2)*0.12

def takeHomeSal(x1:Double,x2:Double):Double=income(x1,x2)-tax(x1,x2)

def main(args: Array[String])={
    println(takeHomeSal(40,30));
}
```

## Q4) part b)

```
def main(args: Array[String])={
    println(totIncome(30));
}

def additional(x:Int):Int=(x-15)/5
def totAttend(x:Int):Int=120+((-20)*additional(x))
def AtendenceCost(x:Int):Double=totAttend(x)*3
def totCost(x:Int):Double=AtendenceCost(x)+500
def income(x:Int):Double=x*totAttend(x)
def totIncome(x:Int):Double=income(x)-totCost(x)
```

Github link-

https://github.com/Shamalka111/Scala-Tuto.git