Practical 02 - 22001212

01)

```
22001212_q1.scala > { } demo
     object demo{
         def main(args:Array[String]):Unit={
             var k=2;
             var i=k; var j=k;
             var m=5; var n=m;
             var f=12.0f;
             var g=4.0f;
             var c='X';
              def println(x: Any): Unit
             println("k + 12 * m = " + (k + 12 * m));
             println("m / j = "+(m / j));
             println("n % j = "+(n % j));
             println("m / j * j = "+(m / j * j));
             println("f + 10*5 +g = "+(f + 10*5 +g));
             println("++i * n = "+ result);
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```

```
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] scala "c:\Users\User\Desktop\UCSC\2nd Year Sem-01\SCS 2204 - k + 12 * m = 62

m / j = 2

n % j = 1

m / j * j = 4

f + 10*5 +g = 66.0

++i * n = 15
```

```
$ 22001212_q2.scala > {} demo > $\frac{1}{2}$ main
      object demo{
          def main(args:Array[String]):Unit={
              var a:Int=2;
              var b:Int=3;
              var c:Int=4;
              var d:Int=5;
              var k:Float=4.3f;
              var g:Float=4.0f;
              b-=1;
              var res1= b * a + c *(d);
              d -= 1;
              println("- -b * a + c *d - - =: "+ (res1));
              a+=1;
              println("a++ =: "+ a);
              var res2 = (-2 * (g - k) + c)
              println("-2 * ( g - k ) +c =: "+ res2)
              println("c=c++ =: "+ c)
              C+=1;
              C+=1;
              c=c*a;
              a+=1;
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              println("c=++c*a++ =: "+c);
```

```
[Running] scala "c:\Users\User\Desktop\UCSC\2nd Year Sem-
- -b * a + c *d - - =: 24
a++ =: 3
-2 * ( g - k ) +c =: 4.6000004
c=c++ =: 4
c=++c*a++ =: 18
[Done] exited with code=0 in 5.881 seconds
```

```
22001212 q3.scala > {} demo
    object demo{
    def normalWorking(normalHours:Double):Double={
        250*normalHours;
}

def overtimeWorking(otHours:Double):Double={
        85*otHours;
}

def grossSalary(normalHours:Double,otHours:Double):Double={
        normalWorking(normalHours)+overtimeWorking(otHours);
}

def taxPayment(normalHours:Double,otHours:Double):Double={
        grossSalary(normalHours:Double,otHours:Double):Double={
        grossSalary(normalHours:Double,otHours:Double):Double={
```

```
[Running] scala "c:\Users\User\Desktop\UCSC\2nd Year Sem-01\SCS 2204 - Functional Programming\Pr Final Weekly salary of an employee who works 40 (normal) and 30(OT) hoursper week = 11044.0
```

```
[Running] scala "c:\Users\User\Desktop\UCSC\2nd Year Sem-01\SCS 2204
Profit when the ticket price is Rs.10 =: 480
Profit when the ticket price is Rs.15 =: 940
Profit when the ticket price is Rs.20 =: 1200

[Done] exited with code=0 in 5.754 seconds
```