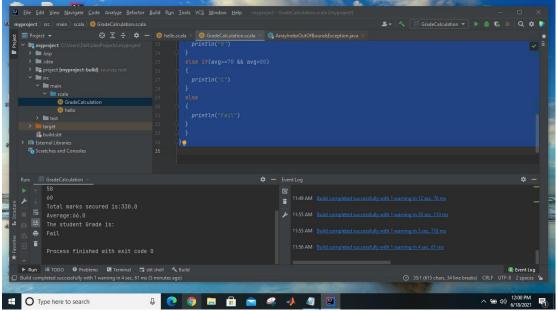
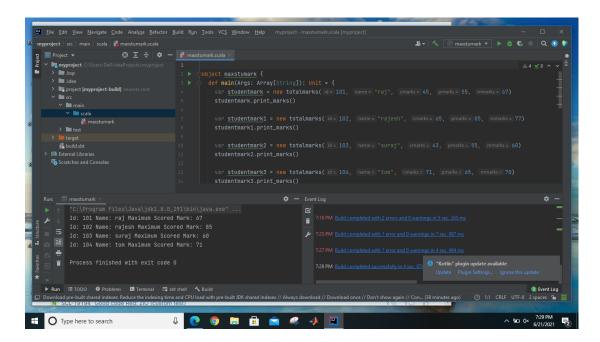
```
1. WAP to calculate student grade based on below rules
      a. 90 to 100 -> Grade A
      b. 80 to 90 -> Grade B
      c. 70 to 80 -> Grade C
      d. Failure.
private object GradeCalculation {
 def main(args: Array[String])
 {
  val marks: Array[Int] = Array(80,80,60,50,60)
  var total:Float=0
  var avg:Float=0
  for(i <- marks)
   println(i)
  for(i <-marks.indices) {
   total = total + marks(i)
   println("Total marks secured is:" + total)
   avg = total/5
   println ("Average:" + avg)
   println("The student Grade is: ")
    if(avg > = 90)
      println("A")
  else if(avg>=80 && avg<90)
  println("B")
 else if(avg > = 70 \&\& avg < 80)
  println("C")
 else
  println("Fail")
```



2. WAP to calculate maximum % scored student report from below data. {id:101,name:raj,cmarks:45,pmarks:55,mmarks:67} {id:102,name:rajesh,cmarks:65,pmarks:85,mmarks:77} {id:103,name:suraj,cmarks:43,pmarks:55,mmarks:60} {id:104,name:tom,cmarks:71,pmarks:65,mmarks:70} object maxstumark { def main(Args: Array[String]): Unit = { var studentmark = new totalmarks(101, "raj", 45, 55, 67) studentmark.printmarks() var studentmark1 = new totalmarks(102, "rajesh", 65, 85, 77) studentmark1.printmarks() var studentmark2 = new totalmarks(103, "suraj", 43, 55, 60) studentmark2.printmarks() var studentmark3 = new totalmarks(104, "tom", 71, 65, 70) studentmark3.printmarks() class totalmarks(id: Int, name: String, cmarks: Int, pmarks: Int, mmarks: def printmarks(): Unit = { if (cmarks > pmarks)

```
if (cmarks > mmarks)
    println("Id: " + this.id + " Name: " + this.name + " Maximum
Scored Mark: " + cmarks)
    else
    println("Id: " + this.id + " Name: " + this.name + " Maximum
Scored Mark: " + mmarks)
    }
    else {
        if(pmarks > mmarks)
            println("Id: " + this.id + " Name: " + this.name + " Maximum
Scored Mark: " + pmarks)
        else
        println("Id: " + this.id + " Name: " + this.name + " Maximum
Scored Mark: " + mmarks)
    }
    }
}
```



3. WAP to perform sorting of below data based on id and name(create class, object and a method for sorting in util class)

```
{id:101,name:raj}
{id:121,name:rajesh}
{id:130,name:suraj}
{id:114,name:tom}
```

```
def data(x: Int, y: String)
{
  var id: Int =x
  var name: String =y
}
object emp1
{
  def main(args: Array[String])
{
    val firstEmp: Unit = data("raj", 101)
    val secondEmp: Unit = data(121, "rajesh")
    val thirdEmp: Unit = data(130, "suraj")
    val forthEmp: Unit = data(114, "tom")
    val empList = List(firstEmp, secondEmp, thirdEmp, forthEmp)
    empList.sortBy(empList => (empList.id, empList.name))
}
```