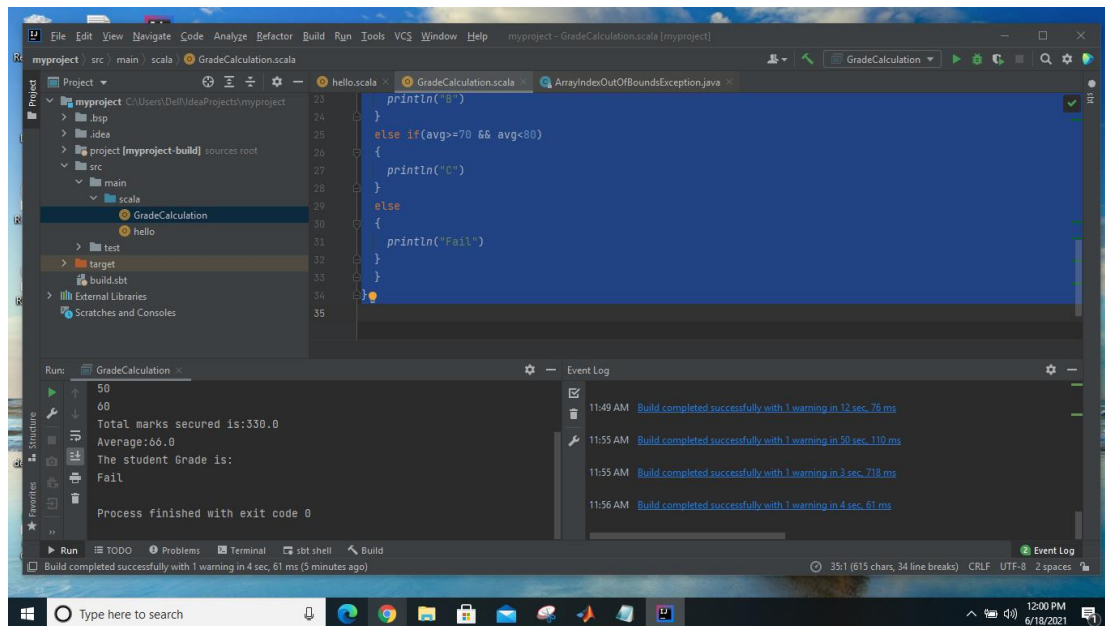


1. WAP to calculate student grade based on below rules

- 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}
```

```
class totalmarks(id:Int, name:String, cmarks:Int, pmarks:Int,
mmarks:Int){
```

```
def print_marks(): Unit = {
```

```
var sum: Int = 0
```

```
var average: Int = 0
```

```
sum = cmarks+pmarks+mmarks
```

```
average = sum / 3
```

```
println("Id: "+ this.id+" Name: " +this.name+" Scored Mark: "+
average)
```

```
}
```

```
}
```

```
object studentmax {
```

```
def main(Args: Array[String]): Unit = {
```

```
var studentmark = new totalmarks(101, "raj", 45, 55, 67)
```

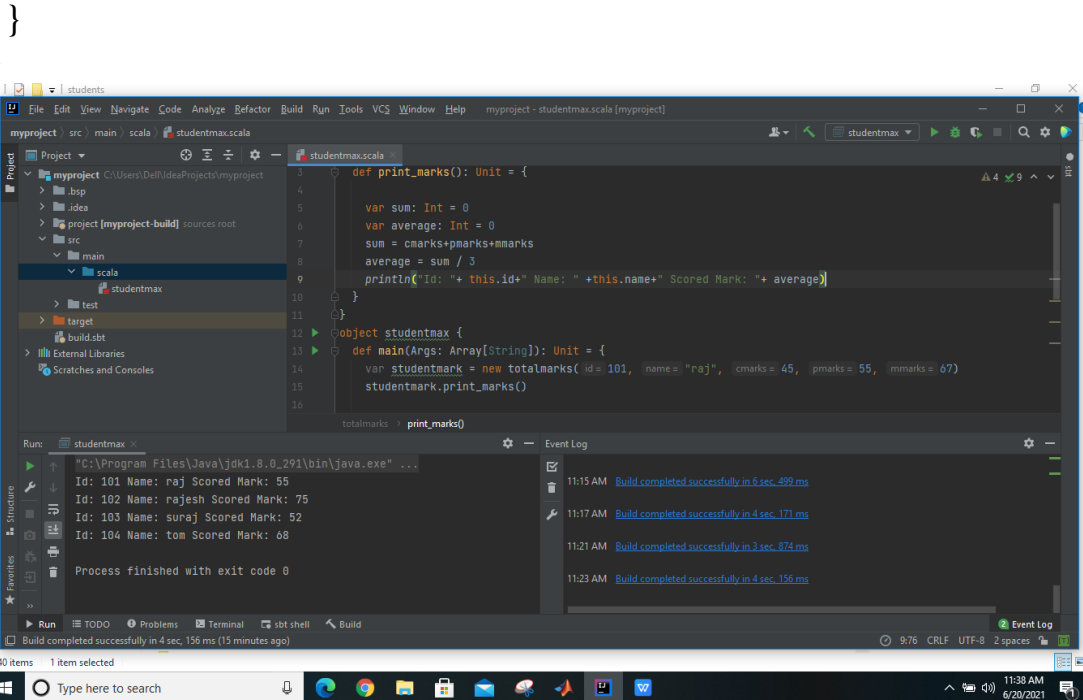
```
studentmark.print_marks()
```

```
var studentmark1 = new totalmarks(102, "rajesh", 65, 85, 77)
```

```
studentmark1.print_marks()
```

```
var studentmark2 = new totalmarks(103, "suraj", 43, 55, 60)
studentmark2.print_marks()
```

```
var studentmark3 = new totalmarks(104, "tom", 71, 65, 70)
studentmark3.print_marks()
```



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 emp
{
    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))
}
```