## Scala coding assignment -1 Deep bhatt 22 June 2021

```
Q1:
ans:
object proj1
def main(arg: Array[String]){
var gr, nm: String = "";
var s1, s2, s3, s4, tot, per: Int = 0;
println("Students name");
nm =scala.io.StdIn.readLine();
println("Subject 1 marks : ");
ph =scala.io.StdIn.readInt();
println("Subject 2 marks : ");
ch =scala.io.StdIn.readInt();
println("Subject 3 marks : ");
mt =scala.io.StdIn.readInt();
println("Subject 4 marks : ");
en =scala.io.StdIn.readInt();
tot = s1+s2+s3+s4;
per = tot /4;
println("Total marks ",tot);
println("Percentage ",per);
if (per >= 90)
gr ="Grade A";
else
if (per >= 80)
gr = "Grade B";
else
if (per >= 70)
gr = "Grade C";
else
gr = "Failure";
println(gr);
}
}
```

## **OUTPUT:**

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```

# **Q**2:

```
Ans:
```

```
class Students{
var id, cmarks, pmarks, mmarks, tot, per: Int = 0;
var name: String = "";
def SetVal(i:Int, nm:String, cm:Int, pm:Int, mm:Int): Unit = {
this.id = i;
this.name = nm;
this.cmarks = cm;
this.pmarks = pm;
this.mmarks = mm;
this.tot = cm + pm + mm;
per = this.tot /3;
def Show(): Unit = {
println("Student ID ",this.id," Name ",this.name);
println("Chemistry marks ",this.cmarks);
println("Physics marks ",this.pmarks);
println("Math marks ",this.mmarks);
println("Total marks ",this.tot);
println("Percentage of marks ",this.per);
object SortPercent
def main(arg: Array[String]){
var i,j: Int = 0;
var stud = Array.fill[Students](4)(new Students());
stud(0).SetVal(101,"raj",45,55,67);
stud(1).SetVal(102,"rajesh",65,85,77);
stud(2).SetVal(103,"suraj",43,55,60);
stud(3).SetVal(104,"tom",71,65,70);
```

```
var tmp = new Students();
for(i <- 0 to 3)
{
    for (j <- i to 3)
    {
        if (stud(i).tot < stud(j).tot)
        {
        tmp = stud(i);
        stud(i) = stud(j);
        stud(j) = tmp;
        }
        }
        for( i <- 0 to 3)
        {
        stud(i).Show();
        println("");
        }
    }
}</pre>
```

## **OUTPUT:**

```
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```
Q3:
Ans:
     class Person{
var id: Int = 0;
var name: String = "";
def SetVal(i:Int, nm:String): Unit = {
this.id = i;
this.name = nm;
def Show(): Unit = {
println("Persons ID ",this.id," Name ",this.name);
}
}
object SortObject
def main(arg: Array[String]){
var i,j: Int = 0;
var pers = Array.fill[Person](4)(new Person());
pers(0).SetVal(101,"raj");
pers(1).SetVal(121,"rajesh");
pers(2).SetVal(130,"suraj");
pers(3).SetVal(114,"tom");
var tmp = new Person();
for(i <- 0 to 3)
for (j<- i to 3)
if (pers(i).id > pers(j).id)
tmp = pers(i);
pers(i) = pers(j);
pers(j) = tmp;
```

## **OUTPUT:**

}

for( i < -0 to 3)

pers(i).Show();
println("");

