## **Tutorial 2**

Index No:- 21000115 Name :- M.F.A.Arshad

## Question 1

```
def calInterest(depositAmount: Double): Double = {
    if (depositAmount <= 20000)
        depositAmount * 0.02
    else if (depositAmount <= 2000000)
        depositAmount * 0.04
    else if (depositAmount <= 20000000)
        depositAmount * 0.035
    else
        depositAmount * 0.065
}

def main(args: Array[String]): Unit = {
    println(calInterest(100000))
    println(calInterest(1000000))
    println(calInterest(10000000))
    println(calInterest(10000000))
}</pre>
```

```
PS C:\Users\aamir\OneDrive\Desktop\New folder\Semester 3\Scala\Scala 4> scalac Q1.scala PS C:\Users\aamir\OneDrive\Desktop\New folder\Semester 3\Scala\Scala 4> scala Q1 200.0 4000.0 35000.0 650000.0
```

```
object Q2 {
  def main(args: Array[String]): Unit = {
    println("Enter a number : ")
    val input = scala.io.StdIn.readLine().toInt

  input match {
    case n if n < 0 => println("input is Negative")
    case n if n == 0 => println("input is zero")
    case n if n % 2 == 0 => println("Even number ")
    case n if n % 2 == 1 => println("Odd number ")
  }
}
```

```
PS C:\Users\aamir\OneDrive\Desktop\New folder\Semester 3\Scala\Scala 4> scala Q2
Enter a number :
0
input is zero
PS C:\Users\aamir\OneDrive\Desktop\New folder\Semester 3\Scala\Scala 4> scala Q2
Enter a number :
2
Even number
PS C:\Users\aamir\OneDrive\Desktop\New folder\Semester 3\Scala\Scala 4> scala Q2
Enter a number :
3
Odd number
PS C:\Users\aamir\OneDrive\Desktop\New folder\Semester 3\Scala\Scala 4> scala Q2
Enter a number :
-4
input is Negative
PS C:\Users\aamir\OneDrive\Desktop\New folder\Semester 3\Scala\Scala 4> []
```

## Question 3

```
object Q3{
   def main(args: Array[String]) = {
        println(formatNames("Benny")()(toUpper));
       println(formatNames("Niroshan")(1)(toUpper));
       println(formatNames("Saman")()(toLower));
       println(formatNames("Kumara")(5)(toUpper));
   def toUpper(name:String):String = name.toUpperCase();
   def toLower(name:String):String = name.toLowerCase();
   def formatNames(name:String)( list: Int*)(function: String => String): String = {
       if (list.isEmpty){
           return function(name);
        var temp = "";
       var i=0;
       while(i<name.length()){
           if(list.contains(i)) temp = temp+ function(name.charAt(i).toString);
           else temp=temp+name.charAt(i).toString;
            i=i+1;
        return temp;
```

```
PS C:\Users\aamir\OneDrive\Desktop\New folder\Semester 3\Scala\Scala 4> scalac Q3.scala
PS C:\Users\aamir\OneDrive\Desktop\New folder\Semester 3\Scala\Scala 4> scala Q3
BENNY
NIroshan
saman
KumarA
```