Scala Tutorial 4

GitHub repository - https://github.com/Uchiha-16/Scala-Turorials/tree/main/Scala%20Tute%204

Q1)

```scala
object Q1 {
    def main(args: Array[String]): Unit = {
      var amount: Float = 1425462.05f

      println("Amount of interest in a year:Rs.  " + interest(amount))
    }
    def interest(x: Float):Float = {
      if(x < 20000){
        return (x * .02f)
      }else if(x < 200000){
        return (x * .04f)
      }else if(x < 2000000){
        return (x * .035f)
      }else{
        return (x * .065f)
      }
    }
}
```
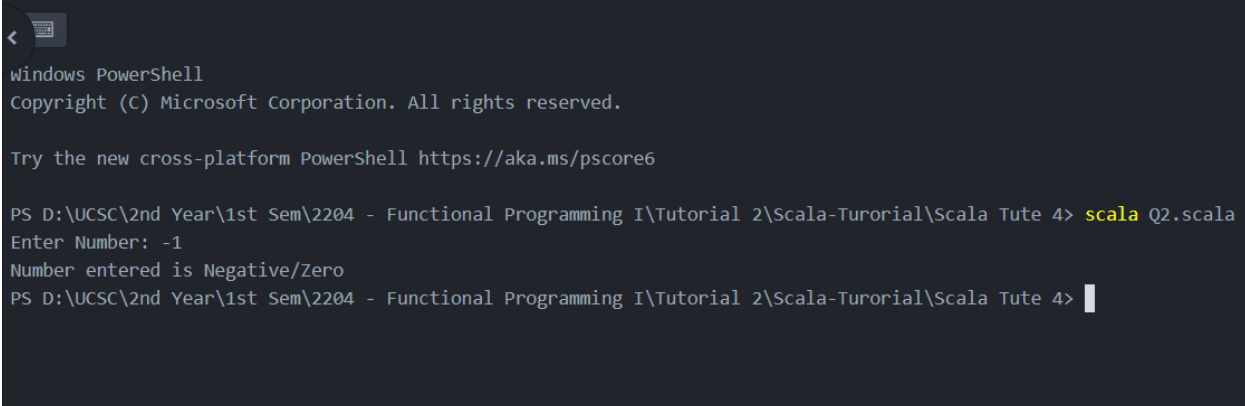
```
Scala - Q1.scala:13  ✔

Amount of interest in a year:Rs.  49891.17
[Finished in 3.211s]
```

Q2)

```scala
1    import scala.io.StdIn._
2
3    object Q2 {
4        def main(args: Array[String]): Unit = {
5
6            print("Enter Number: ")
7            var x = readInt();
8
9            x match {
10           case x if x <= 0 => println("Number entered is Negative/Zero")
11
12           case x if x%2==0 => println("Number entered is Even")
13
14           case _ => println("Number entered is Odd")
15           }
```

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\UCSC\2nd Year\1st Sem\2204 - Functional Programming I\Tutorial 2\Scala-Turorial\Scala Tute 4> scala Q2.scala
Enter Number: -1
Number entered is Negative/Zero
PS D:\UCSC\2nd Year\1st Sem\2204 - Functional Programming I\Tutorial 2\Scala-Turorial\Scala Tute 4>
```

Q3)

```scala
 1    // import scala.io.StdIn._
 2
 3    object Q3 {
 4
 5      def main(args: Array[String]): Unit = {
 6
 7        // var a = readLine();
 8
 9        println(formatNames("Benny", toUpper(_)))
10        println(formatNames("Niroshan".substring(0,2), toUpper(_)) + formatNames("Niroshan".substring(2), toLower(_)))
11        println(formatNames("Saman", toLower(_)))
12        println(formatNames("Kumara".substring(0,1), toUpper(_)) + formatNames("Kumara".substring(1,5), toLower(_)) +
13        formatNames("Kumara".substring(5), toUpper(_)))
14      }
15
16      def toUpper(s: String): String = {
17        s.toUpperCase()
18      }
19
20      def toLower(s: String): String = {
21        s.toLowerCase()
22      }
23
24      def formatNames(name: String, func: String => String): String = {
25        func(name)
26      }
27
28    }
```

Scala - Q3.scala:17 ✔

```
BENNY
NIroshan
saman
KumarA
[Finished in 3.07s]
```