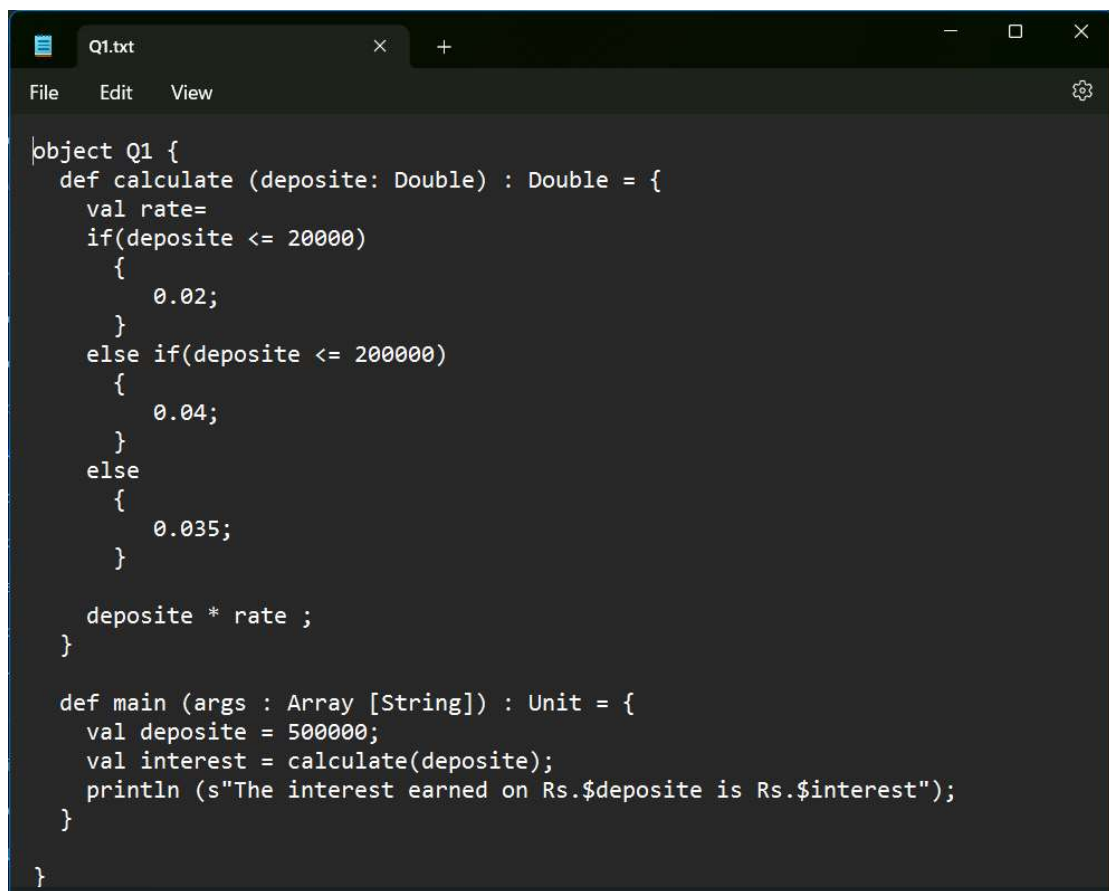
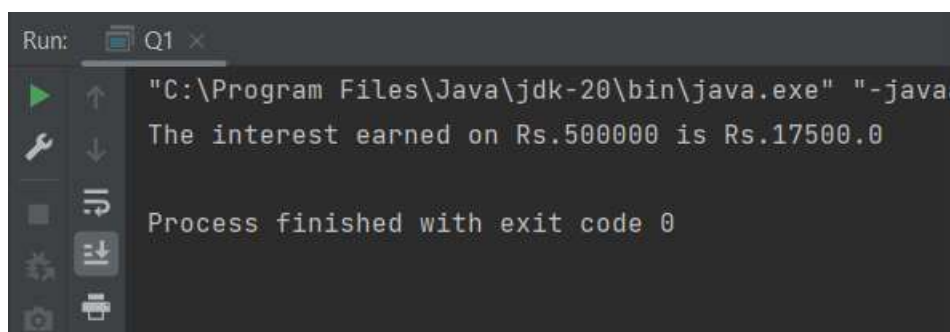


Q1:

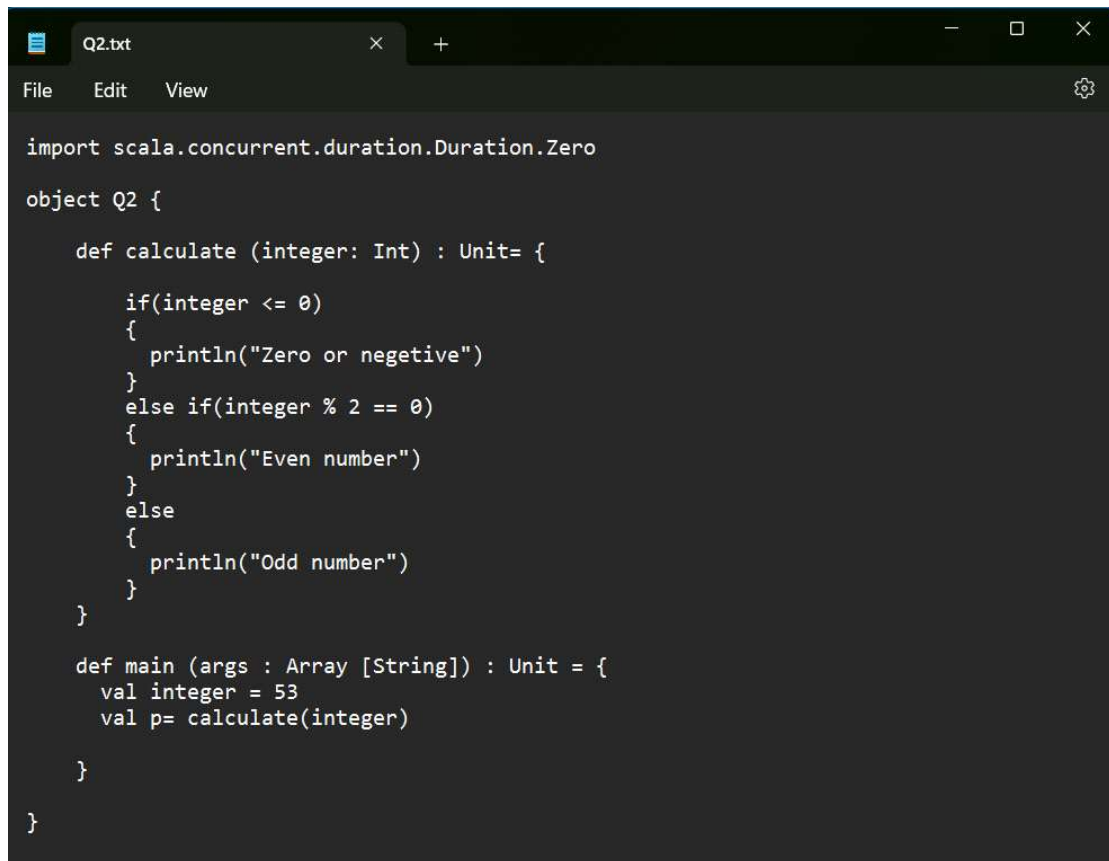


```
object Q1 {  
  def calculate (deposit: Double) : Double = {  
    val rate=  
    if(deposit <= 20000)  
    {  
      0.02;  
    }  
    else if(deposit <= 200000)  
    {  
      0.04;  
    }  
    else  
    {  
      0.035;  
    }  
  
    deposit * rate ;  
  }  
  
  def main (args : Array [String]) : Unit = {  
    val deposit = 500000;  
    val interest = calculate(deposit);  
    println (s"The interest earned on Rs.$deposit is Rs.$interest");  
  }  
}
```



```
Run: Q1 x  
"C:\Program Files\Java\jdk-20\bin\java.exe" "-java  
The interest earned on Rs.500000 is Rs.17500.0  
Process finished with exit code 0
```

Q2:



```
import scala.concurrent.duration.Duration.Zero

object Q2 {

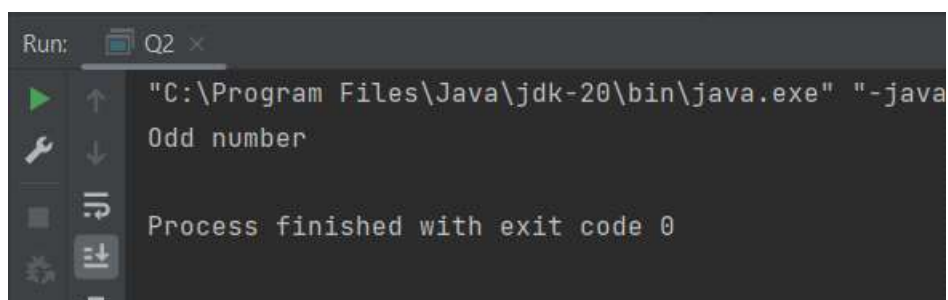
  def calculate (integer: Int) : Unit= {

    if(integer <= 0)
    {
      println("Zero or negetive")
    }
    else if(integer % 2 == 0)
    {
      println("Even number")
    }
    else
    {
      println("Odd number")
    }
  }

  def main (args : Array [String]) : Unit = {
    val integer = 53
    val p= calculate(integer)

  }

}
```



```
Run: Q2 x
"C:\Program Files\Java\jdk-20\bin\java.exe" "-java
Odd number
Process finished with exit code 0
```

Q3:

```
Q3.txt
File Edit View

def toLower(s: String): String = s.toLowerCase

def toUpper(s: String, i: Int): String = {
  var str = new StringBuilder(s)
  var c = toUpper(s.charAt(i).toString)
  str.deleteCharAt(i)
  str.insert(i, c).toString()
}

def formatNames(name: String, f: String => String): String = f(name)

def formatNames(name: String, f: (String, Int) => String, index: Int):
String = f(name, index)

def main(args: Array[String]): Unit = {
  var arr: Array[String] = Array("Benny", "Niroshan", "Saman", "Kumara")
  println(formatNames(arr(0), toUpper))
  println(formatNames(arr(1), toUpper, 1))
  println(formatNames(arr(2), toLower))
  println(formatNames(arr(3), toUpper, arr(3).length - 1))
}
}
```

```
Run: Q3 x
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaag
BENNY
NIROSHAN
saman
KumarA
Process finished with exit code 0
```