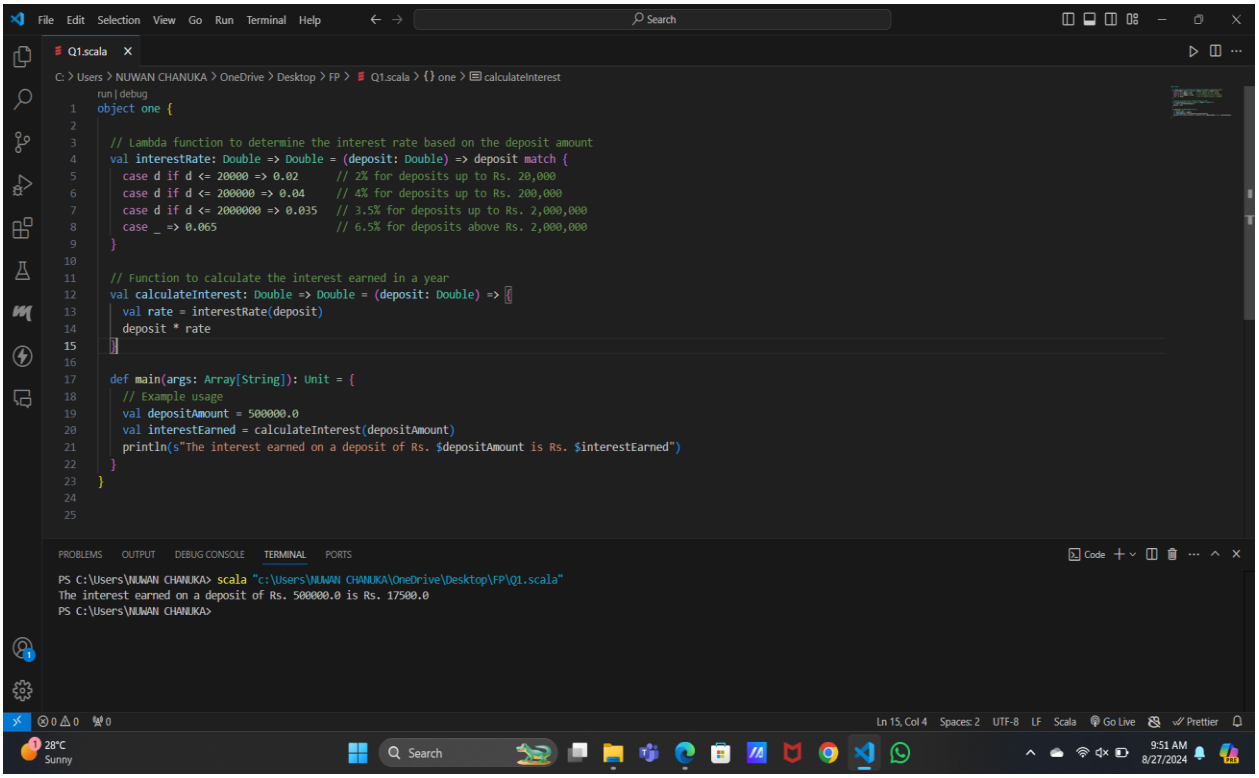
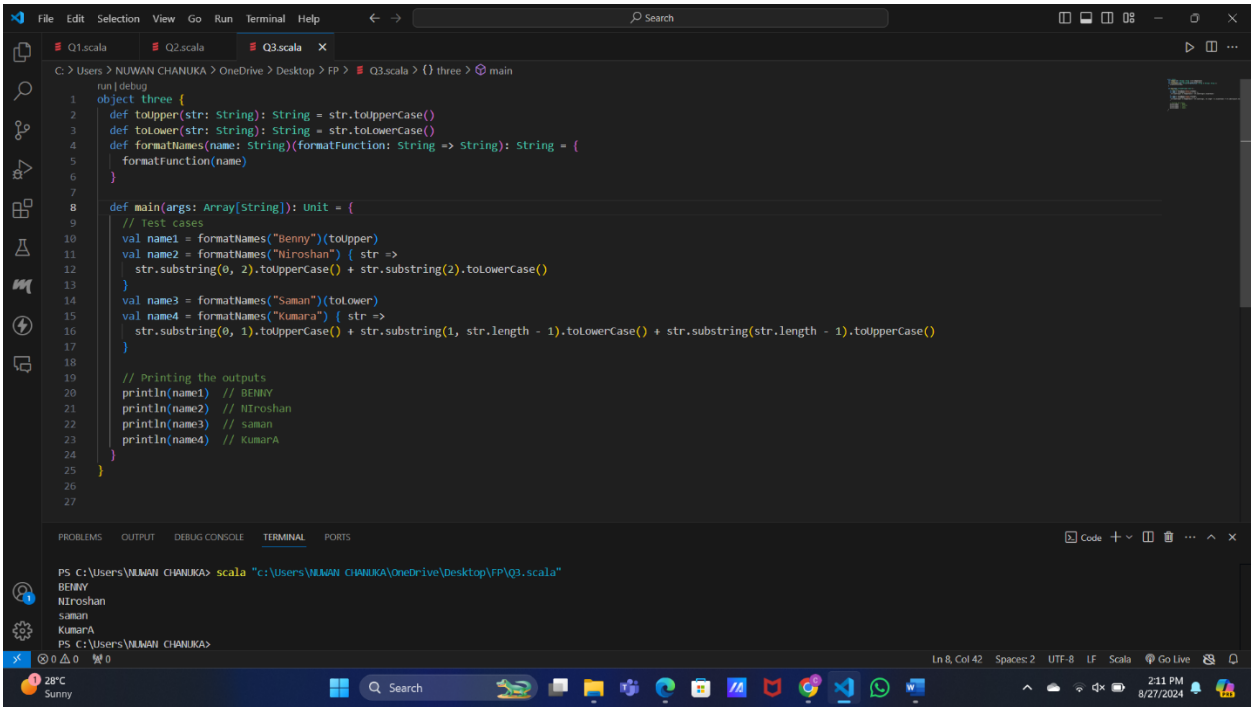
22000992 -Practical 09

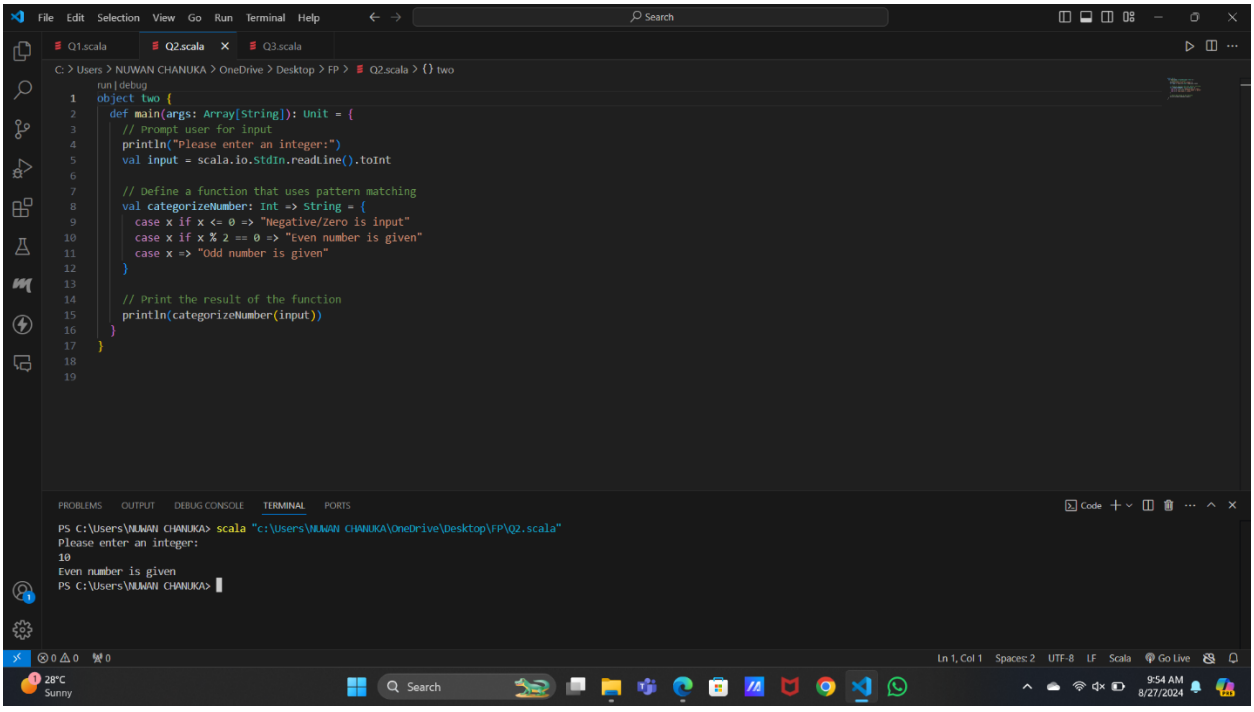
Q 01



Q 03


File Edit Selection View Go Run Terminal Help
Search
Q1.scala
Q2.scala
Q3.scala
C: > Users > NUWAN CHANUKA > OneDrive > Desktop > FP > Q3.scala > {} three > main
run | debug
object three {
def toUpper(str: String): String = str.toUpperCase()
def toLower(str: String): String = str.toLowerCase()
def formatNames(name: String)(formatFunction: String => String): String = {
formatFunction(name)
}
def main(args: Array[String]): Unit = {
// Test cases
val name1 = formatNames("Benny")(toUpper)
val name2 = formatNames("Niroshan") { str =>
str.substring(0, 2).toUpperCase() + str.substring(2).toLowerCase()
}
val name3 = formatNames("Saman")(toLower)
val name4 = formatNames("Kumara") { str =>
str.substring(0, 1).toUpperCase() + str.substring(1, str.length - 1).toLowerCase() + str.substring(str.length - 1).toUpperCase()
}
// Printing the outputs
println(name1) // BENNY
println(name2) // NIroshan
println(name3) // saman
println(name4) // KumarA
}
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Code
PS C:\Users\NUWAN CHANUKA> scala "c:\Users\NUWAN CHANUKA\OneDrive\Desktop\FP\Q3.scala"
BENNY
NIroshan
saman
KumarA
PS C:\Users\NUWAN CHANUKA>
Ln 8, Col 42 Spaces: 2 UTF-8 LF Scala Go Live
28°C Sunny
Search
2:11 PM 8/27/2024

Q02


File Edit Selection View Go Run Terminal Help
Search
Q1.scala
Q2.scala
Q3.scala
C: > Users > NUWAN CHANUKA > OneDrive > Desktop > FP > Q2.scala > {} two
run | debug
object two {
def main(args: Array[String]): Unit = {
// Prompt user for input
println("Please enter an integer:")
val input = scala.io.StdIn.readLine().toInt
// Define a function that uses pattern matching
val categorizeNumber: Int => String = {
case x if x <= 0 => "Negative/Zero is input"
case x if x % 2 == 0 => "Even number is given"
case x => "Odd number is given"
}
// Print the result of the function
println(categorizeNumber(input))
}
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Code
PS C:\Users\NUWAN CHANUKA> scala "c:\Users\NUWAN CHANUKA\OneDrive\Desktop\FP\Q2.scala"
Please enter an integer:
10
Even number is given
PS C:\Users\NUWAN CHANUKA>
Ln 1, Col 1 Spaces: 2 UTF-8 LF Scala Go Live
28°C Sunny
Search
9:54 AM 8/27/2024