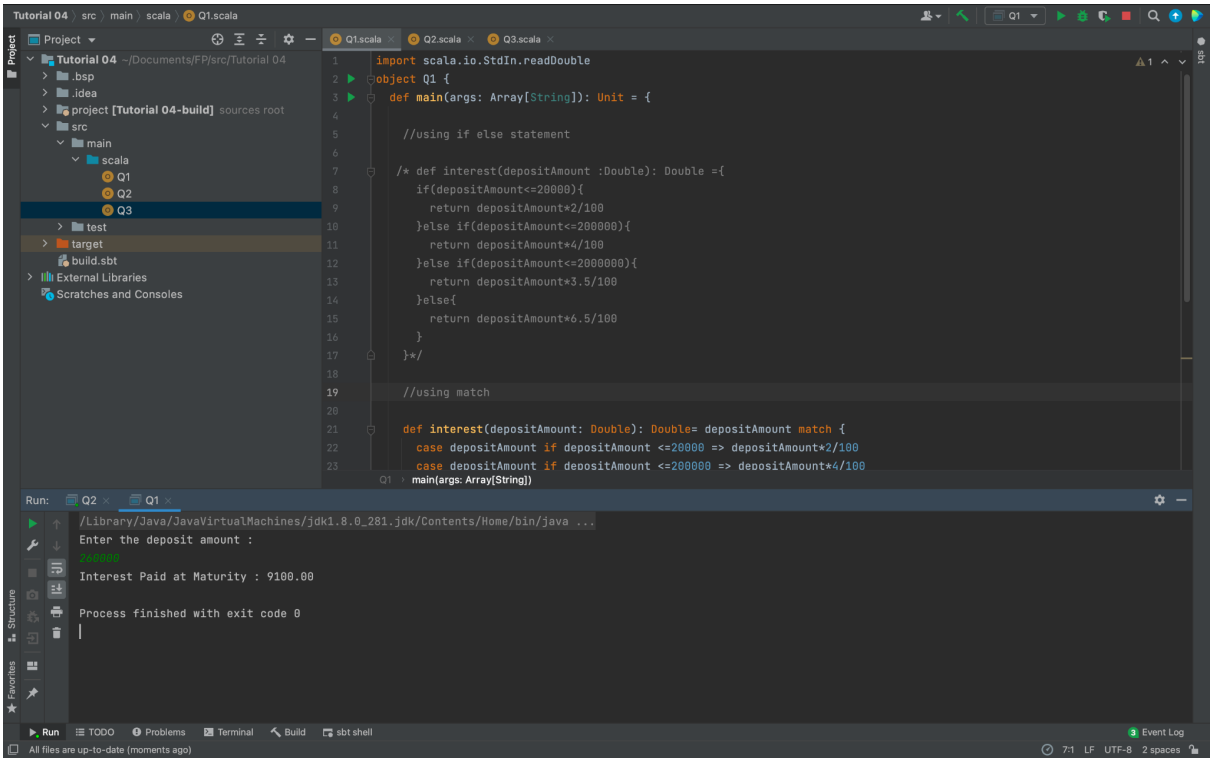
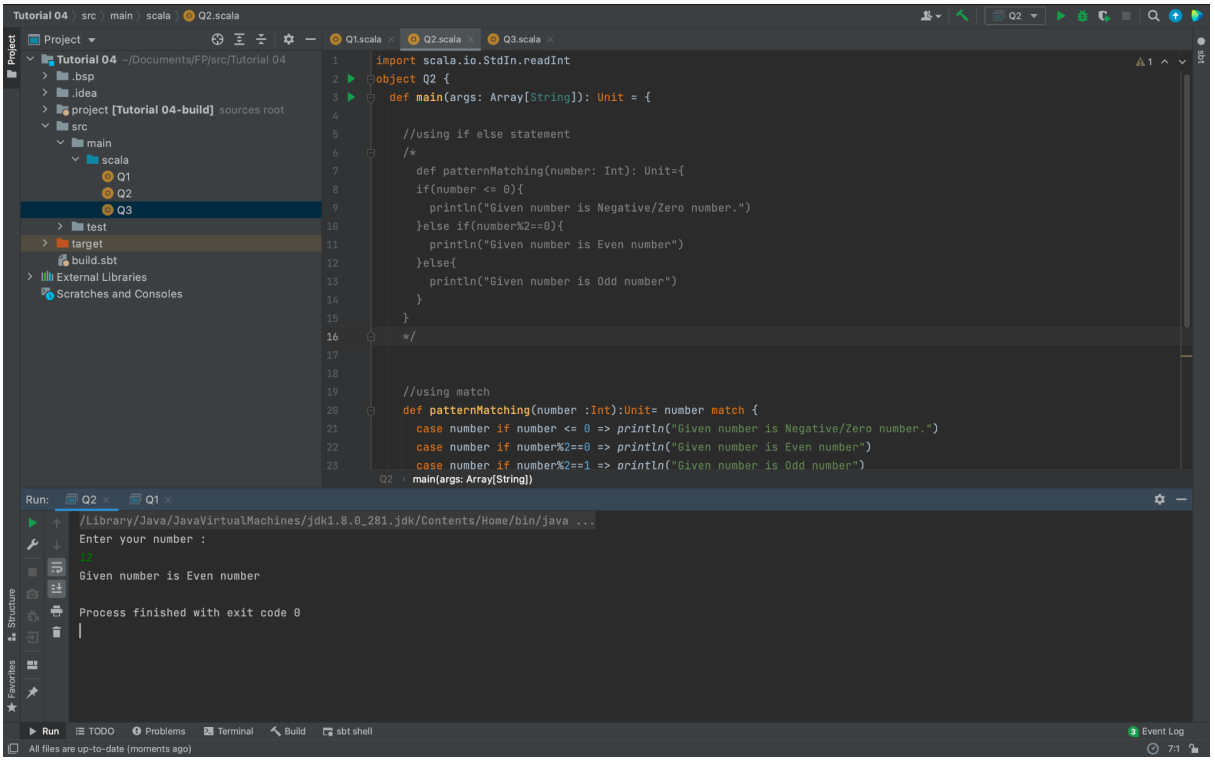
SCS2204
Functional Programming
Tutorial 4

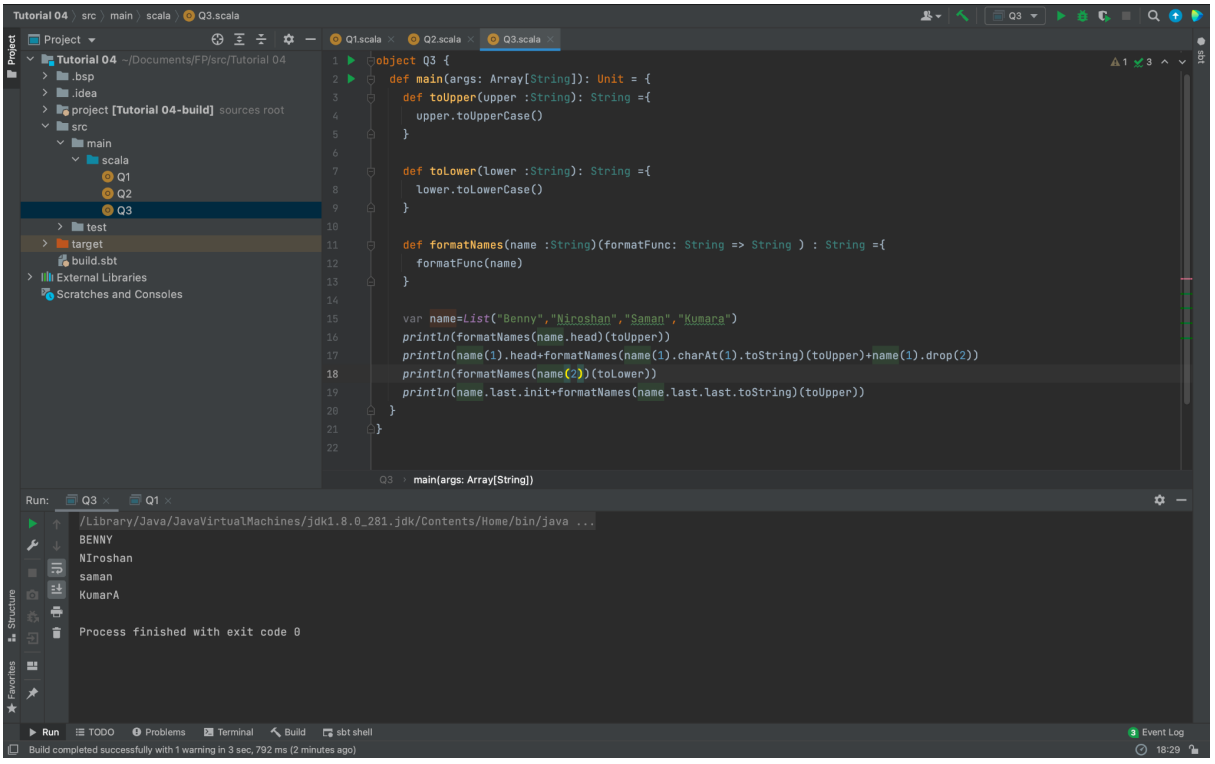
1)



2)


Tutorial 04 › src › main › scala › Q2.scala
Project
Tutorial 04 ~/Documents/FP/src/Tutorial 04
.bsp
.idea
project [Tutorial 04-build] sources root
src
main
scala
Q1
Q2
Q3
test
target
build.sbt
External Libraries
Scratches and Consoles
Q1.scala
Q2.scala
Q3.scala
import scala.io.StdIn.readInt
object Q2 {
def main(args: Array[String]): Unit = {
//using if else statement
/*
def patternMatching(number: Int): Unit={
if(number <= 0){
println("Given number is Negative/Zero number.")
}else if(number%2==0){
println("Given number is Even number")
}else{
println("Given number is Odd number")
}
}
*/
//using match
def patternMatching(number :Int):Unit= number match {
case number if number <= 0 => println("Given number is Negative/Zero number.")
case number if number%2==0 => println("Given number is Even number")
case number if number%2==1 => println("Given number is Odd number")
Q2 › main(args: Array[String])
Run: Q2 Q1
/Library/Java/JavaVirtualMachines/jdk1.8.0_281.jdk/Contents/Home/bin/java ...
Enter your number :
12
Given number is Even number
Process finished with exit code 0
Run TODO Problems Terminal Build sbt shell
Event Log
All files are up-to-date (moments ago)

3)


Tutorial 04 › src › main › scala › Q3.scala
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Q3
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External Libraries
Scratches and Consoles
Q1.scala
Q2.scala
Q3.scala
object Q3 {
def main(args: Array[String]): Unit = {
def toUpper(upper :String): String ={
upper.toUpperCase()
}
def toLower(lower :String): String ={
lower.toLowerCase()
}
def formatNames(name :String)(formatFunc: String => String) : String ={
formatFunc(name)
}
var name=List("Benny","Niroshan","Saman","Kumara")
println(formatNames(name.head)(toUpper))
println(name(1).head+formatNames(name(1).charAt(1).toString)(toUpper)+name(1).drop(2))
println(formatNames(name(2))(toLower))
println(name.last.init+formatNames(name.last.last.toString)(toUpper))
}
}
Q3 › main(args: Array[String])
Run: Q3 Q1
/Library/Java/JavaVirtualMachines/jdk1.8.0_281.jdk/Contents/Home/bin/java ...
BENNY
NIroshan
saman
KumarA
Process finished with exit code 0
Run TODO Problems Terminal Build sbt shell
Event Log
Build completed successfully with 1 warning in 3 sec, 792 ms (2 minutes ago)