SCALA TUTORIAL 4

Visit my GitHub Repository:

https://github.com/virajSandakelum/SCS2204-FUNCTIONAL-PROGRAMMING

Question 01

```
object Qusetion_1 extends App {

    def interest(depositAmount:Int):Double = depositAmount match
{
        case x if(x > 0 && x <= 20000 ) => x * 0.02
        case x if(x <= 200000) => x * 0.04
        case x if(x <= 2000000) => x * 0.035
        case x if(x > 2000000) => x * 0.065
    }

    print("\nEnter the Deposit Amount :")
    var depositAmount = scala.io.StdIn.readInt()
    println("if amount is Rs."+ depositAmount+" then interest
is: Rs:"+interest(depositAmount))


}
```

Question 02

```
object Qusetion_4 extends App {

    def checkEvenOdd(inputValue:Int):Any = inputValue match {
        case x if(x == 0) => println("Zero")
        case x if(x <= 0) => println("Negative Number")
        case x if(x % 2 == 0) => println("Even Number")
        case x if(x % 2 == 1) => println("Odd Number")
    }


    print("Enter the integer value: ")
    var inputInteger = scala.io.StdIn.readInt()
    print("Input integer value is "+inputInteger+" and it is ")
    checkEvenOdd(inputInteger)
}
```

Question 03

```
object Qusetion_5 extends App {

  def toUpper(string: String): String = string.toUpperCase()

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


  def formatNames(name: String)(fMethod:(String) => String):
String =
  {
      fMethod(name)
  }

  println(formatNames("Benny")(toUpper(_)))
  println(formatNames("Niroshan".substring(0,2))(toUpper(_)) +
formatNames("Niroshan".substring(2))(toLower(_)))
  println(formatNames("Saman")(toLower(_)))
  println(formatNames("Kumara".substring(0,1))(toUpper(_)) +
formatNames("Kumara".substring(1,5))(toLower(_)) +
formatNames("Kumara".substring(5))(toUpper(_)))
```

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