

Scala SCS 2204 - Functional Programming

Scala Tutorial – 4

1. Develop the function of interest. It consumes a deposit amount and produces the actual amount of interest that the money earns in a year. The bank pays a flat 2% for deposits of up to Rs. 20 000, a flat 4% per year for deposits of up to Rs. 200000, a flat 3.5% per year for deposits of up to Rs. 2000000, and a flat 6.5% for deposits of more than Rs. 200000.

2. Write a program in PatternMatching, takes the integer input from the command line. Based on the input, write a code using match to print Negative/Zero is input when input is less than or equal to 0. Print Even number is given when input is even, and print Odd number is given when input is odd.

3. Write a Scala program which defines a **method named "toUpper"** and it accepts a String as input parameter that is then formatted to **upper case as output**. Define **another method named "toLower"** which accepts a String as input parameter and formats the input **to lower case as output**. Define **another method named "formatNames"** which also has an **input String called "name"**. This method however has a parameter group which accepts a function with an input of type String and also outputs a String. This particular function will be used to apply the given format to the "name" input. You can use the test inputs for, say, "Benny", "Niroshan", "Saman" "Kumara", and make sure that the output is as shown below.

Output:

BENNY
Niroshan
saman
KumarA