Instructions

Please send a .sc file via github. If you use Scala IDE, just save your .sc file and submit. If you didn't reach that level (yet), copy text from your command line into a text file and submit that via github.

Note:

- My assumption was you are familiar with python to write the following codes. You need some googling to do and have two weeks to submit your work.
- Next session, I will go over them.

Exercise 1 (Mandatory)

Define the following values:

- val x : Double = 42.354562
- val y : Int = 3

Write required code in println command to print the following output:

- The round value of x is 42.35
- The left zero padding version of y is 0003

Obviously 42.35 and 0003 should be computed.

Exercise 2 (Mandatory)

Write a function to compute factorial (5! = 5*4*3*2*1)

Then write another function to call fact function and println few examples (i.e, 6,8,4.52). Your program should return NA if the input is not integer.

Exercise 3 (Mandatory)

Repeat the previous exercise by accepting the double numbers into the factorial function. Convert them to integer before calling the fact function.

Exercise 4 (Optional)

Write a code that prints out the first 10 values of the Fibonacci sequence.

- The result should be 0, 1, 1, 2, 3, 5, 8, 13, 21, 34

Exercise 5 (Optional)

Write a function that takes the number and says here is the cube of the input:

- 5 -> 125 is the cube
- Retry doing it via lambda function