Lecture 3 In-class practice

In Excel file "Lec3_VBAFundamentals" module "Practice",

- 1. Write a sub procedure in this module named Q1.
 - Create five variables with Variant data type: S, K, T, r, sig
 - Worksheet "Q1" contains the data of a European option inputs. Read cell B4 into variable S, cell B5 into K, cell B6 into T, cell B7 into r, and cell B8 into sig.
 - Create a variable named done with Double data type.
 - Calculate done using the following equation:

$$d_1 = \frac{\ln(S/K) + (r + \sigma^2/2)T}{\sigma\sqrt{T}}$$

We have VBA built-in function log to calculate ln, and sqr to calculate the square root.

• Write done into cell B10.

- 2. Write a sub procedure named Q2.
 - First, you create a 1D array variable named Var with two elements.
 - The data type of the variable is **String**.
 - First element has value of "Lecture".
 - Second element has value of "One".
 - Then write the value of Var into Excel range "A1:B1" of "Sheet2".

- 3. Worksheet "Q3" contains film data. Write a sub procedure named Q3.
 - Create a variable FilmName.
 - Use VBA built-in function Array to create a 1D array variable with 4 elements, value of which are the film names in range A2:A5.
 - Create an array variable FilmType and read data in range B2:B5 into this array variable.
 - Create a 1D array variable RngObject with 3 elements.

Assign range object A2:A5 to the first element.

Assign range object B2:B5 to the second element.

Assign range object C2:C5 to the third element.