

Swift Programming

Topics: Variables, Data types, String, Input/Output

Requirements

- For each of the problem below write a Swift program.
- When defining variable names, use proper and meaningful names for the variables.
- Follow Swift's convention for naming your variables (camel case)
- Add comments to your code.

Problem1

- Write a Swift program which asks the user to enter two numbers called X and Y and calculates the following:
 1. $F(X,Y) = X*Y + Y^2 + \text{abs}(X-Y)$ where ^ is the power operation
 2. Find A such that the following equation holds: $X^2 + Y^3 - A = 5$

Problem2

- Write a Swift program which asks the user to enter four numbers called X1, X2, X3 and X4 and calculates the following:
 - o . $\text{Maximum}(X1, X2, X3, X4) - \text{Minimum}(X1, X2, X3, X4) + X1^X2 + \text{abs}(X3-X4)$

Problem3

- Write a Swift program which asks the user to enter a positive number called N, and print the letter “A” for N times.

Problem4

- Write a Swift program that prompts (ask) the user to enter his/her first-name and last-name. The Swift program, the concatenate the first-name to last-name and print the following message:
 - o . Hi [first-name last-name], I hope you are doing well!

Problem5

- Write a Swift program which asks the user to enter three number and finds the absolute distance between the biggest and smallest entered numbers.

Good Luck ☺