

# CIS 122 Project Week 1

## Instructions:

1. Read the Questions Carefully.
2. Try and save all your files in a standard fashion. E.g part (a) of Project 1 would be named project1a.py or simply 1a.py.
3. The project is worth 50 points, although there is scope for extra credit, Extra work means Extra Credit

### A. Variables and Assignment.

10 points

Create a variable and assign it a value. I leave the name and value of the variable up to you.

### B. Built-in Functions

5 x 3 =15 points

Create a variable with the name 'variable1' assign value of 100 to it. Using the available built-in functions of Python implement the following operations:

NOTE: All the function calls should be in one file. Please do not make separate files for each of the sub-parts.

- a.) Convert the value in the variable to a float value.
- b.) Convert the value in the variable to a string.
- c.) Convert the value in the variable back to an integer value.
- d.) Given a new variable 'var2' with value 101, find the maximum and minimum of the two (Hint: refer to variables not literals)
- e.) Print-"The value of variable1 is 100 and of var2 is 101". (Use variables not literals)

C. User-Defined Functions: Python as a Calculator

5 x 5 =25 points

Using Python's power as a calculator, implement following functions to carry out the calculator operations:

NOTE: All of the functions should be in one python file.

- a.) `add(num1,num2)` – returns the addition of two numbers.
- b.) `subtract(num1,num2)` – returns the subtraction of num1 from num2  
(Hint: `num2-num1`).
- c.) `multiply(num1,num2)` – returns the multiplication of two numbers.
- d.) `divide(num1,num2)` – returns the division of num1 divided by num2.
- e.) `integer_divide(num1,num2)`- returns the integer value of num1 divided by num2.

XC- try and accept input from a user to get the values of num1 and num2 and then call the function/s. +5 points

Extra Credit

+1 for every error you run in to or find, write the type of error and what you did to rectify it. Make sure to use the *Pound* Symbol(`#`) to write them as comments