University College Dublin
MIS3011S Introduction to Programming
Practical 2

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1. Write a Python program that saves your name, student ID and hometown in appropriately named variables. Use the values saved with those variables to print the following output:

   ```
   This is John Smith's computer program.
   His student ID is 12345678.
   His hometown is "Hometown".
   ```

   (a) Change the values stored in your variables; the new information should be printed, without having to change the `print` statement.

2. Write a Python program that saves two decimal values in two variables called `a` and `b`, and prints the following output (e.g. with values 13 and 5, respectively):

   ```
   Value a is <class 'int'>
   Value b is <class 'int'>
   13 + 5 = 18
   13 - 5 = 8
   13 * 5 = 65
   13 / 5 = 2.6
   13 % 5 = 3
   13 ** 5 = 371293
   ```

   (a) Change the values stored in your variables; the new information should be printed, without having to change the `print` statements.

3. Write Python programs that calculate and print the results of the following formulas:

   (a) $\frac{7-4}{5-3}$

   (b) $\frac{1}{1-32^2}$

   (c) $\left(\frac{1+2.5}{3*5} - 2.9 + 3*2\right)^2$