University College Dublin
MIS3011S Introduction to Programming
Practical 3

Miguel Nicolau

1. Write a Python program that reads two decimal values as program arguments, and prints the following output (e.g. by passing the arguments 13 and 5, such as `python program.py 13 5`):

   ```
   13.0 + 5.0 = 18.0
   13.0 - 5.0 = 8.0
   13.0 * 5.0 = 65.0
   13.0 / 5.0 = 2.6
   13.0 ** 5.0 = 371293.0
   ```

   (a) Pass different values as arguments to your program, and check that the output is still correct.

2. Write a Python program called `create_customer.py` that everytime it is executed, **appends** a new customer to a file passed as a program argument (e.g. `customers.txt`), containing a customer name and ID per line. Your program should read the customer details (using `input()`), and write those details into the specified file. Example execution:

   ```
   $ python create_customer.py customers.txt
   Costumer name: John Smith
   Costumer ID: 123
   $ python create_customer.py customers.txt
   Costumer name: James Bond
   Costumer ID: 007
   ```

3. Write a Python program called `list_customers.py` that accepts a filename as an argument, and prints the contents of that file. Example execution (using the file created in the previous exercise):

   ```
   $ python list_customers.py customers.txt
   Costumers saved in file 'customers.txt':
   John Smith 123
   James Bond 007
   ```