

Exercise 1 – Introduction to Python 3

Objective

To become familiar with the environment used for this course and some basics of Python 3.

Questions

1. Which version of Python is being used?
2. Using an editor, create a new script called **ex1.py**. Within this script, create two variables, one containing your first name and another containing your last name. Display them using **print** with a space between each one.

Run the script:

- a) From a command-line
 - b) From IDLE
3. We have a simple module for displaying a playing card, called **showcard**. It has a function called **display_file** which takes one parameter: the name of a gif file. The playing card filenames are of the following format:

BMP n .GIF

Where n is a number between 1 and 52, indicating the ordinal number of the card in the pack. Note that on Linux this is case sensitive.

Write a Python program called **pickacard.py** which uses this module to display a single card. Prompt the user for a number, as follows:

```
number = input("Pick a card (1-52): ")
```

Then, construct a filename from number, and then display the card by passing the filename to **showcard.display_file** as a parameter.

Don't worry about out-of-range numbers for the time being.

If time allows...

4. The card display currently times out after five seconds. You may wish to adjust this by calling **showcard.set_timeout(*number_of_seconds*)**.

Solutions

From IDLE, open the file using the menus File/Open, which will create a new window displaying the source code. Run that code from the new window using Run/Run module (or by pressing <F5>).

Question 1

Which version of Python is being used?

```
$ python -V
```

Python 3.4.2

Question 2

Using an editor, create a new script called **ex1.py**. Within this script, create two variables, one containing your first name and another containing your last name. Display them using **print** with a space between each one.

Run the script:

- a) From a command-line
- b) From IDLE

Our solution has this code in it:

```
first = 'Fred'  
last = 'Bloggs'  
print(first, last)
```

Notice that separating the two variables with a comma inserts a space for us.

Question 3

Write a Python program called **pickacard.py** which uses the **Showcard** module to display a single card. Here is our solution:

```
import showcard  
  
number = input("Pick a card (1-52): ")  
  
filename = "BMP" + number + ".GIF"  
showcard.display_file(filename)
```