CSE 101 - Computer Engineering Concepts & Algorithms (2017 Spring)

LAB#2

1.

Hello, World!

Write a program that prints out the message:

```
Hello, World!
```

2.

Hello to you, too

Write a program that asks the user for their name, then greets them by saying hello. For example, Grok's interaction with your program should look like:

```
What is your name? Grok
Hello, Grok
```

Frodo's interaction with your program should look like this:

```
What is your name? Frodo
Hello, Frodo
```

Your program must ask the user for their name with input.

3.

Hello with attitude

Write a program that asks the user for their name, and then replies (with a bit of attitude). My interaction with your program should look like this:

```
What is your name? Grok
So you call yourself 'Grok' huh?
```

Watch out for the punctuation!

4.

Hello to you three!

Write a program that asks for the names of your three friends, then prints out a greeting for each of them. Your program should work like this:

```
Friend: Frodo
Friend: Gandalf
Friend: Aragorn
Hello, young Frodo
Hello, wise Gandalf
Hello, brave Aragorn
```

Make sure you describe your first friend as 'young', your second friend as 'wise' and your third friend as 'brave' as above.

5.

Length of a string

Write a program that reads in a line of text and prints out how long it is. For example:

```
Enter text: How long is a piece of string?
30
```

6.

1-Up

Write a program that reads in a number (integer) as input, adds 1 to it, and then prints out the result. Here is an example interaction between your program and the user:

```
Please enter a number: 3
4
```

7.

Python! ^_^

After starting to learn about Python, you want to express you newfound joy to your friends. Your favourite happy emoticon is the Japanese-style emoticon ^_^.

When you finish solving a question, you're super happy and want to express a larger amount of happiness by adding more underscores between the carets: ^_____^.

After telling a couple of your friends how happy you are, writing out these emoticons is becoming tiring. You decide to use your new programming skills to help you out!

Write a Python program to read in a number that indicates how happy your emoticon should be. For example:

```
Enter a number: 1
^_^
```

Here is another example:

```
Enter a number: 3
^___^
```

8.

Repeaterbot

In your travels through space time you come across a robot with the useful (?) ability to repeat everything you say, as many times as you want. Write a program to control this robot.

Your program should work like this:

```
What do you want me to say? spam
How many times do you want me to say it? 5
spamspamspamspamspam
```