

# CSC241 Winter 2014 - Lab Assignment 2

## 1 Examples

Consider the following Python program:

```
>>> s = "3.14"
>>> print(s+s)
3.143.14
>>> a = float(s)
>>> print(a+a)
6.28
```

Consider the following Python program:

```
s = input("type something: ")
for k in range(len(s)):
    if s[k] == 'x':
        print(k)
        break
```

It prints the index te first occurrence of the character 'x' in the string s.

Consider the following Python program:

```
while True:
    s = input('type something: ')
    if s == 'quit':
        break
    else:
        print(len(s))
```

It asks you to type something and prints the length of what you type, until you type “quit”.

## 2 Program 1 (2 points)

Write a program (`a2p1.py`) that inputs two numbers (float, not int) and returns the biggest of them. The program file must be called `a2p1.py`

When done you can grade it automatically with

```
$ grade a2p1.py
```

### 3 Program 2 (2 points)

Write a program (`a2p2.py`) Write a program that repeatedly asks you to input a number (float) until you input the number 0. It then outputs the sum of those numbers, not including the 0.

When done you can grade it automatically with

```
$ grade a2p2.py
```

### 4 Program 3 (2 points)

Write a program (`a2p3.py`) that repeatedly asks you to input a number (float) until you input the number 0. It then outputs the average of those numbers, not including the 0.

```
$ grade a2p3.py
```

### 5 Program 4 (2 points)

Write a program (`a2p4.py`) that repeatedly asks you to input a string until you enter a string of length 0. It then outputs the longest of those strings.

```
$ grade a2p4.py
```

### 6 Program 5 (3 points extra credit)

Write a program (`a2p5.py`) that asks you to input one string and for each character in the string, counts how many time the same character appears in the string.