

## Iterations/loops, Conditional Statements, and String Slicing

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1. Write a program that asks/prompts the user to insert an email address and extract the organization name that the email is associated with.

Sample program:

```
Enter an email address:
```

```
aabdelha@sju.edu
```

```
Organization name: sju
```

2. Write/translate the following mathematical equations in Python:

$$2a^2 + 4a + 29$$

$$\frac{4c + ac}{3b}$$

Solution for the second equation:

```
c = 2
```

```
a = 4
```

```
b = 8
```

```
math_equation = ((4 * c) + (a * c)) / (3 * b)
```

```
print(math_equation)
```

3. Modify your program (exercise 1) such that it displays a menu to ask the user whether you would like to extract organization name (e.g., sju) or domain name (e.g., sju.edu). Tip, using input, ask the user to enter 1 for domain name or 2 for organization name. Then, check (using if statement) whether the user enters 1 or 2 to display the required output.

**Send this in a separate file (.py).**

TIP:

```
user_selection = int(input("Enter 1 for....."))
```

```
if user_selection == 1:
```

```
    # DO SOMETHING
```

```
elif user_selection == 2:
```

```
    # DO SOMETHING
```

```
else:  
    print("wrong/invalid selection")
```

## Sample program:

Choose an option for the following menu:

Enter 1 for domain name

Enter 2 for organization name

1

Domain name is: sju.edu

Due date: September 9<sup>th</sup> at 23:59. Read the policy on my site for late submissions.

Requirements: Add the following block comment at the very beginning of your source code (your python (.py) files). If your program does not work as it is expected, or compiles error, include that in the block comment as well. Please note, you will lose points for not adding the following block comments to your source file.

```
"""
```

```
Author:      Your name
```

```
Assignment: Assignment 1 – strings
```

```
Date:       SUBMISSION DATE
```

```
Description: describe what the program does
```

```
Input:      input that the program expects
```

```
Output:     what does the program return
```

```
Errors:     WRITE HERE IF THERE IS ANY ERROR
```

```
"""
```

***Send me a screenshot of the compiled code (terminal) and your source code to me and our TA with the email subject **CSC115 assignment2*****