

# CSCI S-38 Summer 2018

## Problem Set 1

**Deliverables:** Submit one source file. Each problem should be in its own function.

**Focus:** What is important this week is to get very comfortable with the edit/compile/execute process.

1. Declare, define and initialize variables to represent the following:

- a. age of a cat
- b. grade average of a student
- c. name of a football team
- d. number of jelly beans in a hot tub
- e. whether or not to eat pizza
- f. the maximum number of people allowed in a specific night club

2. Ask the user for the following information: first name, last name, street number, street name.  
street type (i.e., "street", "road", etc) city, state and zip.  
Display in a three line format:

```
John Doe
3 Main Street
Anywhere, MA 02241
```

3. You are creating an online ordering program for "Joe's Hotdogs". Patrons can order hotdogs, fries and soda. Hotdogs cost \$3.50, fries cost \$2.50 and soda costs \$1.25. You must also include a meals tax of 6.25%  
Get all quantities ordered, calculate the cost of each item and the total cost of all items ordered.  
Apply the meals tax and get a total due.  
Display the order, the subtotal, the tax amount and the total.  
Note that all money must be displayed with ***no more than*** 2 numbers after the decimal point (it is ok if there is less than 2). Do this mathematically, not using formatting directives (which we will cover at a later time).

Sample run:

```
Welcome to Joe's
How many hotdogs > 3
How many fries > 2
How many drinks > 3
```

```
Your order:
3 Hotdogs
2 French Fries
3 Sodas
```

```
Subtotal: $19.25
Meals Tax (6.25%): $1.2
Total Due: $20.45
```