CS 160
CS Orientation

Finish Python:
More Programming Structure
• Don't cheat

• Clubs, get involved
  - Wed.

• Thanksgiving week
  - No labs
  - No Wed class
Quiz #7 - Design

• Mr. Brown has given a test to his class. He would like to have the average score for the class, as well as the highest and lowest test scores. What functions do you need? Try to make each function do one thing 😊

• Develop a flowchart/pseudocode solution...
Code for Design....

def get_num_students():
    return int(input("Enter the number of students: "))

def get_scores(scores):
    for i in range(len(scores)):
        scores[i] = float(input("Enter test score: "))

def main():
    students = get_num_students()
    print(students)
    test_scores = [0]*students
    get_scores(test_scores)
    print(test_scores)

main()
Different Design...

```python
#!/usr/bin/python3

scores = []

def get_num_students():
    return int(input("Number of students: "))

def avg(scores):
    return sum(scores) / len(scores)

def main():
    for x in range(get_num_students()):
        raw = input("Score: ")
        scores.append(int(raw))

    scores.sort()

    print("Lowest: " + str(scores[0]))
    print("Highest: " + str(scores[-1]))
    print("Average: " + str(avg(scores)))

main()
```