CS 160
CS Orientation

Finish Repetition and Strings
Odds and Ends

• Demo Assignment #4 this week!!
• Get help early!!

• Videos:
  – https://code.org/educate/resources/videos

• Visualize your Code:
  http://pythontutor.com/visualize.html#mode=edit
In-class Exercise #4

• Get into groups of 4-5.

• Explain what each of line in this code does and tell me what the output is:

```python
y = 0;
for x in range(10):
    if (x % 2):
        y = y + 1;
print(y);
```

Expected output: 3
What happens when you enter bad data?

• Where/when does the error occur?

```java
num = input.nextInt()  // input("Enter positive int.");
```
In-class Exercise #4 cont...

• Without using a built-in function to do the checking for you...
  – How will you make sure you get a good positive integer from the user?

  Catching Errors
  - Let errors happen
  - Catch it if it does
  - Prevent it from happening
Demo...

for all the characters in the string

if the character is not >= 10, and <= 9
Syntax for good positive int...

```python
num=input("Enter a positive decimal number, 0-255: ");
print("Char 1: "+num[0]);
print("String len: "+str(len(num)));

#only checks if it is a number
if(num > 255 or num < 0):
    print("bad!!!");
else:
    print("good!"yr
do for i in range(len(num)):
    if not (num[i] in str(range(10))):
        if num[i] < '0' or num[i] > '9':
            print("bad number")
            break; #breaks you out of the loop
        #exit();#exits you out of the program
print("end of for")
```