CS 160
CS Orientation

Conditionals, Repetition, and Strings
Python Conditional Demo...

```python
money = int(input("Enter how much money you have: "));

if (money > 10):  # if we have more than 10 dollars
    print("We are going fancy!");
elif (money > 5):  # if we don't have more than 10, but more than 5
    print("We are going subway!");
else:  # we don't have more than 5 dollars, default case
    print("Boo hoo, eating at home!");
```
Order Matters!!!

```python
money = int(input("Enter how much money you have: "));

if (money > 5):
    print("We are going fancy!");
elif (money > 10):
    print("We are going subway!");
else:
    print("Boo hoo, eating at home!");
```
Python Decision Logic:
Print 1, 3, 5, or 7 stars

Differences/Similarities in these?

```python
x = int(input("Print 1, 3, 5, 7 stars?"));

if(x==1):
    print("   *   ")
if(x==3):
    print("  ***  ")
if(x==5):
    print(" ***** ")
if(x==7):
    print("*******")
```

```python
if(x==1):
    print("   *   ")
elif(x==3):
    print("  ***  ")
elif(x==5):
    print(" ***** ")
elif(x==7):
    print("*******")
```

Same output w/ same input

OSU Oregon State University
Python Decision Logic:
Print 1, 3, 5, or 7 (for any other #) stars

Differences/Similarities in these?

```python
x=int(input("Print 1, 3, 5, 7 stars?")

if(x==1):
    print("   *   ")
if(x==3):
    print("  ***  ")
if(x==5):
    print(" ***** ")
else:
    print("*******")
```

```python
if(x==1):
    print("   *   ")
elif(x==3):
    print("  ***  ")
elif(x==5):
    print(" ***** ")
else:
    print("*******")
```
## Loop Logic Structure

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</table>
Python Loop Logic

for x in range(7):
    print("*", end="")

OR

x=1
while(x<=7):
    print("*", end="")
    x+=1
Strings

• Create a string
  my_string="hello";

• Access a character
  my_string[0] #gives you first character

• Length
  len(my_string)