

# **General Information**

Whitespace matters! Indent where needed Import modules with "import modulename" # Comments start with a # print "Hello, World!" # prints to screen

# **Conditional Statements**

```
if weight < 50 and weight >= 10:
    # do stuff
elif ((role == 'it') or (role == 'qa')):
    # do stuff
elif not os == 'Windows'
    # do stuff
else:
    # do stuff
```

# **Numbers**

```
total = 3 * 3 # 9
total = 5 + 2 * 3 # 11
cost = 1.50 + 3.75 # 5.25
nine = int("9") # convert string to int
```

### **Strings**

```
title = 'Us and them'
len(title)  # 11
title[3:6]  # 'and'
title[:-5]  # 'Us and'
title[0]  # 'U'
title[-1]  # 'm'
title.split(' ')  # ['Us', 'and', 'them']
':'.join(['A','B','C'])  # 'A:B:C'
```

#### For Loops

# **While Loops**

```
while True:
   print('Endless loop!')

i = 1
while i <= 5:
   print('Step: ' + str(i))
   i += 1

while True:
   if(start_the_loop_over):
        continue
   if(end_the_loop):
        break</pre>
```

### Lists

```
scores = ['A', 'C', 90, 75, 'C']
                   # 'A'
scores[0]
                  # 'A', 'C'
scores[1:3]
                  # 90, 75
scores[2:]
                  # 'A'
scores[:1]
                  # 'A', 'C', 90
scores[:-1]
                   # 4
len(scores)
                  # 'C', 75, 90, 'A', 'C'
scores.sort()
scores.append(100) # Adds 100 to list
                  # removes the last item
scores.pop()
scores.pop(2)
                  # removes the third item
scores.count('C') # 2
scores.remove('A') # removes 'A'
75 in scores
                  # True
```

#### **Tuples**

Like lists, except they cannot be changed tuple1 = (1,2,3,"a","z") # Creates tuple tuple1[3] # 'a'

#### **Dictionaries**

### **Functions**

```
def sumNums(numOne, numTwo = 0):
   return numOne + numTwo
print sumNums(3,4)
```

# Class

```
class Person:
   __name = ""
   def __init__(self, name):
      self.__name = name
```