

### **General Information**

Whitespace matters! Indent where needed.
Import modules with "import modulename"
# This is a comment
print("Hello, World!") # prints to screen

#### **Conditional Statements**

```
if isSunny:
   print('It's sunny!')
elif 90 <= temp < 100 and bath > 80:
   print('Bath is hot and full!')
elif not ((job == 'qa') or (usr == 'adm')):
   print('Match if not qa or adm')
else:
   print('No match. Job is ' + job)
```

#### Lists

```
scores = ['A', 'C', 90, 75, 'C']
                   # 'A'
scores[0]
                  # 'C', 90
scores[1:3]
                  # 90, 75, 'C'
scores[2:]
                  # 'A'
scores[:1]
                  # 'A', 'C', 90, 75
scores[:-1]
                  # 5
len(scores)
scores.count('C') # 2
                  # 75, 90, 'A', 'C', 'C'
scores.sort()
scores.remove('A') # removes 'A'
scores.append(100) # Adds 100 to list
                   # removes the last item
scores.pop()
scores.pop(2)
                 # removes the third item
```

# True

## **Numbers**

```
total = 3 * 3 # 9

total = 5 + 2 * 3 # 11

cost = 1.50 + 3.75 # 5.25

total = int("9") + 1 # 10
```

#### Strings

```
title = 'Us and them'
# most list operations work on strings
title[0]  # 'U'
len(title)  # 11
title.split(' ') # ['Us', 'and', 'them']
':'.join(['A','B','C']) # 'A:B:C'
nine = str(9)  # convert int to string
title.replace('them', 'us') # Us and us
```

#### **Tuples**

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

#### **Dictionaries**

## **For Loops**

75 in scores

#### **Functions**

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

print(sumNums(3,4)) # 7
print(sumNums(3)) # 3
```

# While Loops

```
i = 0
while True:
    i += 1
    if i == 3:
        continue # go to next loop
    if i == 7:
        break # end loop
    print(i) # 1 2 4 5 6
```

#### Class

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

    def birthYear(self):
        return year - self.age

user = Person('Jimmi', 27)
user.name = 'Jim'
print(user.name) # prints Jim
print(user.birthYear())
```