

## CS 150 Spring 2020 – Quiz 2 “Cheat Sheet”

### for-loops

To loop over each integer value in the range 0..(n-1):

```
for <loop_index> in range(n):  
    <statements>
```

For example:

```
for x in range(3):  
    print(2*x+1)
```

produces output

```
1  
3  
5
```

### Strings

**str(object)**: Converts object, e.g. int or float to a string

**string1 + string2**: Returns a new string that is the concatenation of string1 and string2

**string \* int**: Returns a new string that is string repeated int times

### random module

**randint(a, b)**: Return a random integer N such that  $a \leq N \leq b$

**uniform(a, b)**: Return a random floating point number N such that  $a \leq N \leq b$

For example:

```
import random  
n = random.randint(0,3)  
for i in range(n):  
    s = str(i)+' hi'  
    print(s)
```

might sometimes produce the output

```
0 hi  
1 hi  
2 hi
```

or it might produce just the first 2 lines, or just the first line, or no output at all.