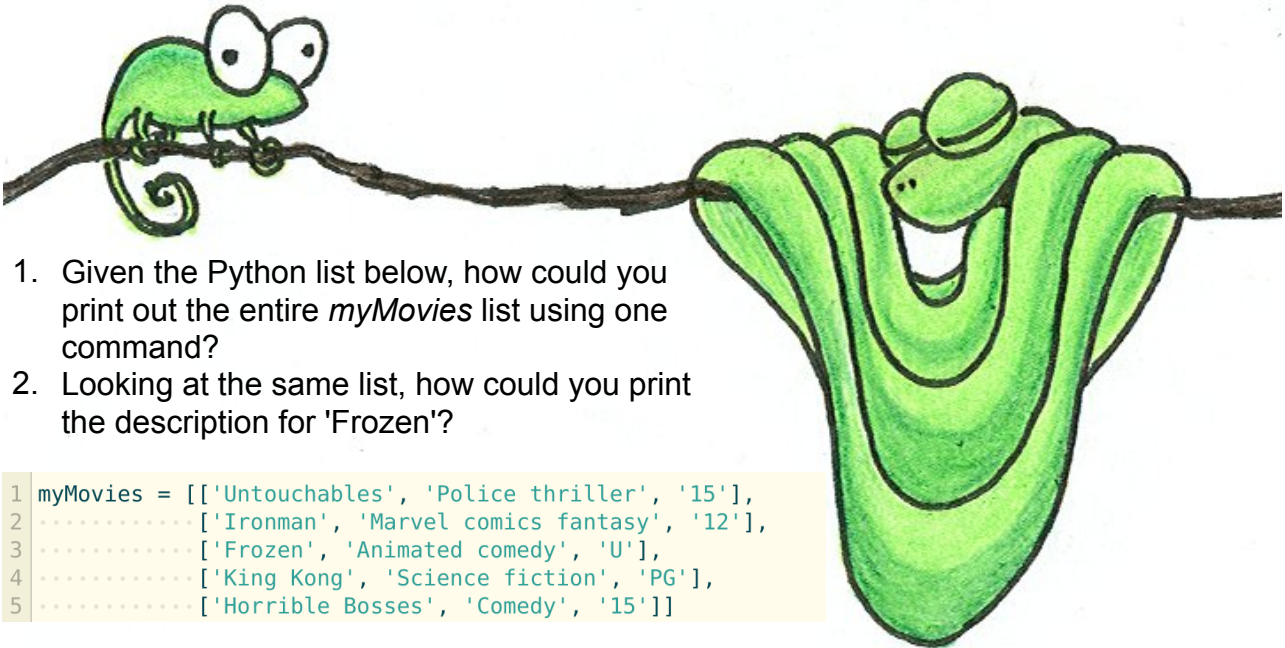# Python Refresher

1. Given the Python list below, how could you print out the entire *myMovies* list using one command?
2. Looking at the same list, how could you print the description for 'Frozen'?

```
1  myMovies = [['Untouchables', 'Police thriller', '15'],
2              ['Ironman', 'Marvel comics fantasy', '12'],
3              ['Frozen', 'Animated comedy', 'U'],
4              ['King Kong', 'Science fiction', 'PG'],
5              ['Horrible Bosses', 'Comedy', '15']]
```

3. Look at the code to the right, how many times will this *for* loop execute?
4. What will the value of *position* be after the loop's final execution?

```
10  for position in range(0, len(myMovies)):
11    if filmSearch == myMovies[position][0]:
12      print(myMovies[position])
13
```

5. Take a look at the Python dictionary called 'key,' below. Use it to decipher this string: 'Nytbevguz'.

```
1  key = {'a':'n', 'b':'o', 'c':'p', 'd':'q', 'e':'r', 'f':'s', 'g':'t', 'h':'u',
2         'i':'v', 'j':'w', 'k':'x', 'l':'y', 'm':'z', 'n':'a', 'o':'b', 'p':'c',
3         'q':'d', 'r':'e', 's':'f', 't':'g', 'u':'h', 'v':'i', 'w':'j', 'x':'k',
4         'y':'l', 'z':'m', 'A':'N', 'B':'O', 'C':'P', 'D':'Q', 'E':'R', 'F':'S',
5         'G':'T', 'H':'U', 'I':'V', 'J':'W', 'K':'X', 'L':'Y', 'M':'Z', 'N':'A',
6         'O':'B', 'P':'C', 'Q':'D', 'R':'E', 'S':'F', 'T':'G', 'U':'H', 'V':'I',
7         'W':'J', 'X':'K', 'Y':'L', 'Z':'M', '!':'!', '?':'?', ' ':' '}
```

6. When will this *while* loop finish?
7. What does line 9 (*position += 1*) do?

```
7  while song[position] != 'end':
8    sound.play_effect(song[position])
9    position += 1
10   time.sleep(1)
```

```
2  with open('hello.txt', 'a') as myFile:
3    myFile.write('Hello again, this is line 3.\n')
4    myFile.write('This is line 4.\n')
5    myFile.close()
6    print('Finished.')
```

8. Describe briefly what this code does.
9. What does *\n* in lines 3 and 4 do?
10. In line 2, what does *'a'* do?