

Chapter 6: Going Loopy

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11:34 AM

Here are some examples of loops that you can try out for yourself. The answers can be found at <http://python-for-kids.com/>.

#1: the Hello Loop

What do you think the following code will do? First, guess what will happen, and then run the code in Python to see if you were right.

```
>>> for x in range(0, 20):  
    print('hello %s' % x)  
    if x < 9:  
        break
```

#2: even numbers

Create a loop that prints even numbers until it reaches your year of age or, if your age is an odd number, prints out odd numbers until it reaches your age. For example, it might print out some- thing like this:

```
2 4 6 8 10 12 14
```

#3: My five favorite Ingredients

Create a list containing five different sandwich ingredients, such as the following:

```
>>> ingredients = ['snails', 'leeches', 'gorilla belly-button lint',  
                  'caterpillar eyebrows', 'centipede toes']
```

Now create a loop that prints out the list (including the numbers):

```
1 snails  
2 leeches  
3 gorilla belly-button lint  
4 caterpillar eyebrows  
5 centipede toes
```

#4: Your Weight on the Moon

If you were standing on the moon right now, your weight would be 16.5

If you were standing on the moon right now, your weight would be 16.5 percent of what it is on Earth. You can calculate that by multiplying your Earth weight by 0.165.

If you gained a kilo in weight every year for the next 15 years, what would your weight be when you visited the moon each year and at the end of the 15 years? Write a program using a for loop that prints your moon weight for each year.