Exercise 1:

Create a variable that has an int value and another variable that has a float value. Write code that prints the product (multiply the two variables together).

Hint: To multiply numbers in Python, use the asterisk sign (*).

```
In [2]: x = 7
         y = 1.50
         a = x*y
         print (a)
         10.5
In [5]: c = 'The world without music is a food without smell'
         print (c)
         The world without music is a food without smell
In [9]: x
Out[9]: 7
In [15]: d = ", then I will walk 9 miles."
         print (c + d)
         The world without music is a food without smell, then I will walk 9 miles.
In [24]: if y != 7:
             print('It is not seven.')
             print('it is seven.')
         It is not seven.
```

Exercise 2:

Make a list of all the months in the year. Write code that uses a loop to go through the list, print out the month and the number of characters (length) for each month word.

```
In [2]: months = ['Jan', 'Feb', 'March', 'April', 'June']
```

```
In [3]: | for names in months :
              print(names)
          Jan
          Feb
         March
         April
          June
In [14]: print(len(months))
In [26]: fruits = ['mango', 'apple', 'banana', 'kiwi'] #value in list
          for item in fruits:
              print(item) #for Loop code
         mango
          apple
         banana
         kiwi
In [28]: print(len(fruits))
          print(len(c + d))
          74
```

Exercise 3:

Create a dictionary with keys "movie" and "season", with the values being your favorite movie and season. Then write code to print out "My favorite [key] is [value]".

```
In [32]: print(Favorite)
         {'The office': 'spring', 'Lord of the ring': 'summer', 'Starborn': 'winter',
         'Startrek': 'summer'}
In [34]: #print key
         print(Favorite['The office'])
         spring
In [39]:
         for bobo, numnum in Favorite.items(): #.item funtion pair up key and value in d
         ictionary
             print('My favorit movie is ' + bobo + ' ,and my favorit season is ' + num
         num + '.')
         My favorit movie is The office ,and my favorit season is spring.
         My favorit movie is Lord of the ring ,and my favorit season is summer.
         My favorit movie is Starborn ,and my favorit season is winter.
         My favorit movie is Startrek ,and my favorit season is summer.
In [45]: Favorite['Avenger'] = 'summer'
         Favorite.values()
Out[45]: dict_values(['spring', 'summer', 'winter', 'summer'])
```

Exercise 4:

Create a customized function (def) that divides two variables and returns the result of their division. Then call your function using the variables you made in Exercise 1.

Hint: To divide numbers in Python, use the forward slash (/).

```
In [37]: def addNum(num1, num2):
    return num1 + num2

In [38]: x = 10
    y = 2

In [39]: addNum(x, y)

Out[39]: 12

In [40]: def addNum(num1, num2):
    return num1 / num2

In [41]: addNum(x, y)
Out[41]: 5.0
```