Python

1. WAP to create a dictionary of numbers mapped to their negative value for numbers from 1-5.
   The dictionary should contain something like this:
   Do with both with and without range based for loop.
   {1:-1,2:-2,3:-3….}

2. Check which of the following declarations will work

```
1.  d = {1=2,2=3}
2.  d = {1:2,2:3}
3.  d = {1,2 ; 2,3}
4.  d = {(1,2) , (2,3)}
5.  d = {'a':'A', 'b':1, c:[1234]}
6.  d = {'a':'A', 'b':1, 'c':[1234]}
7.  d = dict([(1,2) , (2,3)])
8.  d = dict(((1,2) , (2,3)))
9.  d = dict((1,2) , (2,3)])
10. d = dict(x=2 , y=3)
11 = dict('x'=2 , 'y'=3)
12 = dict(1=2 , 2=3)
```

3. Read help for zip and write a program that has two lists
   l1 = [1,2,3,4]
   l2 = [10,20,30,40]
   And converts them to a dictionary ***d*** containing ***{ 1:10,2:20 …….}***

4. Use range based for loop to store all upper case alphabets and their corresponding ASCII values in the dictionary ***d***.
   The result should be ***d = {'A': 65, 'B':66,…..}***

5. Create a mapping of number to word from 0-9. **(0:'zero'……)**
   - Ask user for a single digit number and print the corresponding word format.
   - Print all keys of above dictionary
   - Print all Values of a dictionary
   - Print all Key and Value pairs of above dictionary

6. Predict Output of:

```
l1 = ['A','B','C','D']
l2 = ['Apple', 'Ball', 'Cat', 'Dog']
d1 = dict(zip(l1, l2))
print(d1)
d2 =  dict( list(d1.items()) [::2] )
print(d2)
```

7. WAP to input a string and count occurrence of each vowel in a string.
   Ex: if user enters:
   "Beautiful Day"
   Output should Be:
   a:2
   e:1
   I :1
   o:0
   u:2

   [**Hint:** Use a list of a dictionary (preferably dictionary)]

8. Update above program to print frequency of each alphabet present in string.

9. WAP that takes a string as input and prints frequency of each word.

   Ex: if input is ***"count the words in the sentence in"***

   Output:
   count: 1
   the: 2
   words: 1
   in: 2
   sentence: 1