

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. d = dict('x'=2 , 'y'=3)
12. d = 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