## **Programming\_Assingment25**

## Question1

Create a function that takes three integer arguments (a, b, c) and returns the amount of

integers which are of equal value.

Examples

```
equal(3, 4, 3) \to 2
equal(1, 1, 1) \to 3
equal(3, 4, 1) \to 0
```

Notes

Your function must return 0, 2 or 3.

```
In [1]:
def equal(a,b,c):
    num = 0
    if a == b and a == c :
    elif a == b or a == c:
    else:
        num = 0
    return num
equal(3, 4, 3)
                                                                                  Out[1]:
                                                                                   In [2]:
equal(3, 4, 3)
                                                                                  Out[2]:
2
                                                                                   In [3]:
equal(1, 1, 1)
                                                                                  Out[3]:
3
                                                                                   In [4]:
```

```
equal(3, 4, 1)
                                                                                                         Out[4]:
Question2
     Write a function that converts a dictionary into a list of keys-values tuples.
     Examples
     dict_to_list({
     'D': 1,
     'B': 2,
     'C': 3
     ) \rightarrow [('B', 2), ('C', 3), ('D', 1)]
     dict_to_list({
     'likes': 2,
     'dislikes': 3,
     'followers': 10
     }) → [('dislikes', 3), ('followers', 10), ('likes', 2)]
     Notes
     Return the elements in the list in alphabetical order.
                                                                                                          In [5]:
def dict_to_list(d):
     return list(d.items())
                                                                                                          In [6]:
dict_to_list({
```

Out[6]:

'D': 1,
'B': 2,
'C': 3
})

[('D', 1), ('B', 2), ('C', 3)]

```
In [7]:
dict_to_list({
    'likes': 2,
    'dislikes': 3,
    'followers': 10
    })

Out[7]:

Question3

Write a function that creates a dictionary with each (key, value) pair being the (lower case,
    upper case) versions of a letter, respectively.
```

Examples

```
mapping(['p', 's']) \rightarrow \{ 'p': 'P', 's': 'S' \}
```

```
\begin{split} \text{mapping}(['a', 'b', 'c']) &\to \{ \ 'a' \colon 'A', \ 'b' \colon 'B', \ 'c' \colon 'C' \ \} \\ \\ \text{mapping}(['a', \ 'v', \ 'y', \ 'z']) &\to \{ \ 'a' \colon \ 'A', \ 'v' \colon \ 'V', \ 'y' \colon \ 'Y', \ 'z' \colon \ 'Z' \ \} \end{split}
```

Notes

All of the letters in the input list will always be lowercase.

```
In [8]:
def mapping(lst):
    return {v.lower():v.upper() for v in lst}
                                                                                 In [9]:
mapping(['p', 's'])
                                                                                Out[9]:
{'p': 'P', 's': 'S'}
                                                                                In [10]:
mapping(['a', 'b', 'c'])
                                                                               Out[10]:
{'a': 'A', 'b': 'B', 'c': 'C'}
                                                                                In [11]:
mapping(['a', 'v', 'y', 'z'])
                                                                               Out[11]:
{'a': 'A', 'v': 'V', 'y': 'Y', 'z': 'Z'}
                                                                                In [12]:
```

```
mapping(['A', 'v', 'Y', 'z'])
                                                                                         Out[12]:
{'a': 'A', 'v': 'V', 'y': 'Y', 'z': 'Z'}
Question4
     Write a function, that replaces all vowels in a string with a specified vowel.
     Examples
     vow_replace('apples and bananas', 'u') → 'upplus und bununus'
     vow_replace('cheese casserole', 'o') → 'chooso cossorolo'
     vow_replace('stuffed jalapeno poppers', 'e') → 'steffed jelepene peppers'
     Notes
     All words will be lowercase. Y is not considered a vowel.
                                                                                          In [13]:
def vow replace(s,ch):
     vowel ='AEIOUaeiuo'
     s1 = []
     for i in range(len(s)):
          if s[i] in vowel:
              s1.append(ch)
         else:
              s1.append(s[i])
```

```
vowel ='AEIOUaeiuo'
s1 = []
for i in range(len(s)):
    if s[i] in vowel:
        sl.append(ch)
    else:
        sl.append(s[i])

return ''.join((s1))

return ''.join((s1))

ln [14]:
vow_replace('apples and bananas', 'u')

Out[14]:
'upplus und bununus'

ln [15]:
vow_replace('cheese casserole', 'o')

'chooso cossorolo'

ln [16]:
vow_replace('stuffed jalapeno poppers', 'e')

Out[16]:
```

## **Question5**

'steffed jelepene peppers'

```
Create a function that takes a string as input and capitalizes a letter if its ASCII code is even
    and returns its lower case version if its ASCII code is odd.
    Examples
    ascii_capitalize('to be or not to be!') → 'To Be oR NoT To Be!'
    ascii_capitalize('THE LITTLE MERMAID') → 'THe LiTTLe meRmaiD'
    ascii_capitalize('Oh what a beautiful morning.') → 'oH wHaT a BeauTiFuL
    moRNiNg.'
                                                                                        In [17]:
def ascii capitalize(s):
    s1 = []
    for i in range(len(s)):
         if ord(s[i]) % 2 == 0:
              s1.append(s[i].upper())
              s1.append(s[i].lower())
    return "".join((s1))
                                                                                        In [18]:
ascii capitalize('to be or not to be!')
                                                                                       Out[18]:
'To Be oR NoT To Be!'
                                                                                        In [19]:
ascii capitalize('THE LITTLE MERMAID')
                                                                                       Out[19]:
'THe LiTTLe meRmaiD'
                                                                                        In [20]:
ascii capitalize('Oh what a beautiful morning.')
                                                                                       Out[20]:
```

'oH wHaT a BeauTiFuL moRNiNg.'