

Write a Python program using function concept that maps list of words into a list of integers

representing the lengths of the corresponding words. Hint: If a list [ab,cde,erty] is passed on to the python function output should come as [2,3,4] Here 2,3 and 4 are the lengths of the words in the list.

```
In [3]: 1 def map_to_lengths_for(words):
2         lengths = []
3         for word in words:
4             lengths.append(len(word))
5         return lengths
```

```
In [5]: 1 def map_to_lengths_map(words):
2         return map(len, words)
```

```
In [6]: 1 def map_to_lengths_lists(words):
2         return [len(word) for word in words]
```

```
In [11]: 1 if __name__ == "__main__":
2         words = ['ab', 'cde', 'erty']
3         print(map_to_lengths_for(words))
4         print(map_to_lengths_map(words))
5         print(map_to_lengths_lists(words))
```

[2, 3, 4]

<map object at 0x0000028D4CBAE780>

[2, 3, 4]

```
In [ ]: 1 # Problem 2 Write a Python function which takes a character (i.e. a string of
2         a vowel, False otherwise.
```

```
In [12]: 1 def is_vowel(char):
2         vowels = ('a', 'e', 'i', 'o', 'u')
3         if char not in vowels:
4             return False
5         return True
```

```
In [16]: 1 if __name__ == "__main__":
2         print(is_vowel(1))
3         print(is_vowel('a'))
4         print(is_vowel('b'))
5         print(is_vowel('c'))
6         print(is_vowel('e'))
```

False

True

False

False

True

In []:

1	
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