

./Programming Fundamentals using Python - Part 01/Assignment Set - 04/Assignment on string - L

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1: """
2: Write a python function, encrypt_sentence() which accepts a message and encrypts it based on rules given below
3: and returns the encrypted message.\013
4:
5: Words at odd position -> Reverse It
6: Words at even position -> Rearrange the characters so that all consonants appear before the vowels and their order
7: should not change
8:
9: Note:
10: Assume that the sentence would begin with a word and there will be only a single space between the words.
11: Perform case sensitive string operations wherever necessary.
12:
13: =====
14: | Sample Input          | Expected Output      |
15: |=====|=====|
16: | the sun rises in the east | eht snu sesir ni eht stea |
17: |=====|=====|
18: """
19:
20:
21: def encrypt_sentence(sentence):
22:     li = sentence.split(" ")
23:     new = ""
24:     vowel = ["a", "e", "i", "o", "u"]
25:
26:     for i in range(0, len(li)):
27:         if i % 2 == 0:
28:             temp = li[i][::-1]
29:             new += temp + " "
30:         else:
31:             temp2 = ""
32:             s = ""
33:             for alpha in li[i]:
34:                 if alpha.lower() in vowel:
35:                     s += alpha
36:                 else:
37:                     temp2 += alpha
38:             new += temp2 + s + " "
39:     new = new[:-1]
40:     return new
41:
42:
43: sentence = "The sun rises in the east"
44: encrypted_sentence = encrypt_sentence(sentence)
45: print(encrypted_sentence)
```