

1. What will be the output of below code -

(a) <pre>str="hello" str[:2]</pre>	(b) <pre>str='Hello' res="" for i in range(len(str)) : res=res+str[i] print(res)</pre>
(c) <pre>s = 'Hi!' s1 = 'Hello' s2 = s[:2] + s1[len(s1) - 2:] print(s2)</pre>	(d) <pre>a='hello' b='virat' for i in range(len(a)) : print(a[i],b[i])</pre>
(e) <pre>s="learning is fun" n = len(s) m=' ' for i in range(0, n): if(s[i] >= 'a' and s[i] <= 'm'): m = m + s[i].upper() elif(s[i] >= 'n' and s[i] <= 'z'): m = m + s[i-1] elif (s[i].isupper()): m = m + s[i].lower() else: m = m + '#' print(m)</pre>	(f) <pre>a = (5, (10, (30, (40,)))) print(len(a)) print(a[1][0]) print(10 in a) b = (100,(200,(300,),400),500) print(len(b)) print(len(b[1])) print(b[0]+500)</pre>

2. Write a Program to Count the Number of Vowels in a String.
3. Write a Program to Check if a String is a Palindrome or Not.
4. Write a program to input a list and multiple every odd number with 3 and divide every even number by 2.
5. Write a program to input a list L1 and copy all numbers divisible by 7 to another list L2.