

1. Write a program to count word frequencies in a given text

main.py	Output
<pre>1 def wordFrequency(strr): 2 Collection = {} 3 collec = "" 4 5 for i in range(len(strr)): 6 if (strr[i] == ' '): 7 if (collec not in Collection): 8 Collection[collec] = 1 9 collec = "" 10 11 else: 12 Collection[collec] += 1 13 collec = "" 14 15 else: 16 collec += strr[i] 17 18 if (collec not in Collection): 19 Collection[collec] = 1 20 21 else: 22 Collection[collec] += 1 23 24 for it in Collection: 25 print(it, "-", Collection[it]) 26 27 strr = "Peter Piper picked a peck of 28 pickled peppers . A peck of pickled 29 peppers Peter Piper picked ."</pre>	<pre>Peter - 2 Piper - 2 picked - 2 a - 1 peck - 2 of - 2 pickled - 2 peppers - 2 . - 2 A - 1 === Code Execution Successful ===</pre>

2. Palindrome Checker. Write a program that checks if a given word is a palindrome.

main.py	Output
<pre>1 import re 2 def isPalindrome(word): 3 word = re.sub(r'^[a-z0-9A-Z!]', '', word) 4 if (word == word[::-1]): 5 print(f"{word} is a Palindrome.") 6 else: 7 print(f"{word} is not a Palindrome.") 8 9 word1 = '!WOW!' 10 word2 = 'Excellent' 11 isPalindrome(word1) 12 isPalindrome(word2)</pre>	<pre>"!WOW!" is a Palindrome. "Excellent" is not a Palindrome. === Code Execution Successful ===</pre>

3. List Manipulation Create a list of numbers, then write a program that prints the square of each number in the list.

main.py	Output
<pre>1 lst=[] 2 n = int(input('Enter the number of elements : ')) 3 for i in range (0,n): 4 print('Enter the number ',i+1,' : ') 5 ele=int(input()) 6 lst.append(ele) 7 8 print('The lsit is ',lst)</pre>	<pre>Enter the number of elements : 4 Enter the number 1 : 25 Enter the number 2 : 10 Enter the number 3 : 30 Enter the number 4 : 52 The lsit is [25, 10, 30, 52] === Code Execution Successful ===</pre>