**Assignment 2**

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

**Program: -**

test\_str = "Computer Science is a liberal art, it teaches you how to think."

print(f"The original string is: {test\_str}")

res = {key: test\_str.count(key) for key in test\_str.split()}

print("The words frequency: " + str(res))

1. Write a program that checks if a given word is a palindrome.

**Program: -**

take = input("Enter the word to check: ").lower()

if take == take[::-1]:

    print(f"{take} is palindrome.")

else:

    print(f"{take} is not palindrome.")

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

**Program: -**

lst = []

take = int(input("Enter the limit: "))

for i in range(take):

    take1 = int(input(f"Enter the {i+1} element: "))

    take2 = take1\*\*2

    lst.append(take2)

print(f"The list with squares is: {lst}")