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))
```

2. 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.")
```

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

Program: -

```python
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}")
```