D. Sai Tejaswini

VaultofCodes

ASSIGMENT – 2

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

```python
from collections import import
Counter import string
def
count_word_frequencies(text):
    text = text.translate(str.maketrans("", "",
string.punctuation))    text = text.lower()    words =
text.split()    word_freq = Counter(words)    return word_freq


word_freq = count_word_frequencies(input())
print(word_freq)
```

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

```python
def palindrome(word):
word = word.lower()
return word == word[::-1]


word = input() if
palindrome(word):
    print(f"'{word}' is a palindrome.") else:
    print(f"'{word}' is not a palindrome.")
```

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

```python
def
print_squares(numbers):
for number in numbers:
        print(f"The square of {number} is {number**2}")
 numbers_input = input("Enter a list of numbers separated by spaces:
") numbers = list(map(int, numbers_input.split()))
print_squares(numbers)
```