PYTHON INTERNSHIP WEEK-2(ASSIGNMENT)

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

Programiz Python Online Compiler

Programiz PRO >

main.py

Save Run

```python
def count_word_frequencies(text):
    # Split the text into words
    words = text.split()

    # Create an empty dictionary to store word frequencies
    word_freq = {}

    # Iterate through each word in the text
    for word in words:
        # Remove any punctuation marks from the word
        word = word.strip('.,!?;:"()[]{}')

        # Convert the word to lowercase to ensure case-insensitive counting
        word = word.lower()

        # Increment the count for the word in the dictionary
        word_freq[word] = word_freq.get(word, 0) + 1

    return word_freq

# Example usage with a different text
if __name__ == "__main__":
    text = "Python is a widely used high-level programming language for general-purpose programming. Created by Guido van Rossum and first released in 1991."
    frequencies = count word frequencies(text)
```

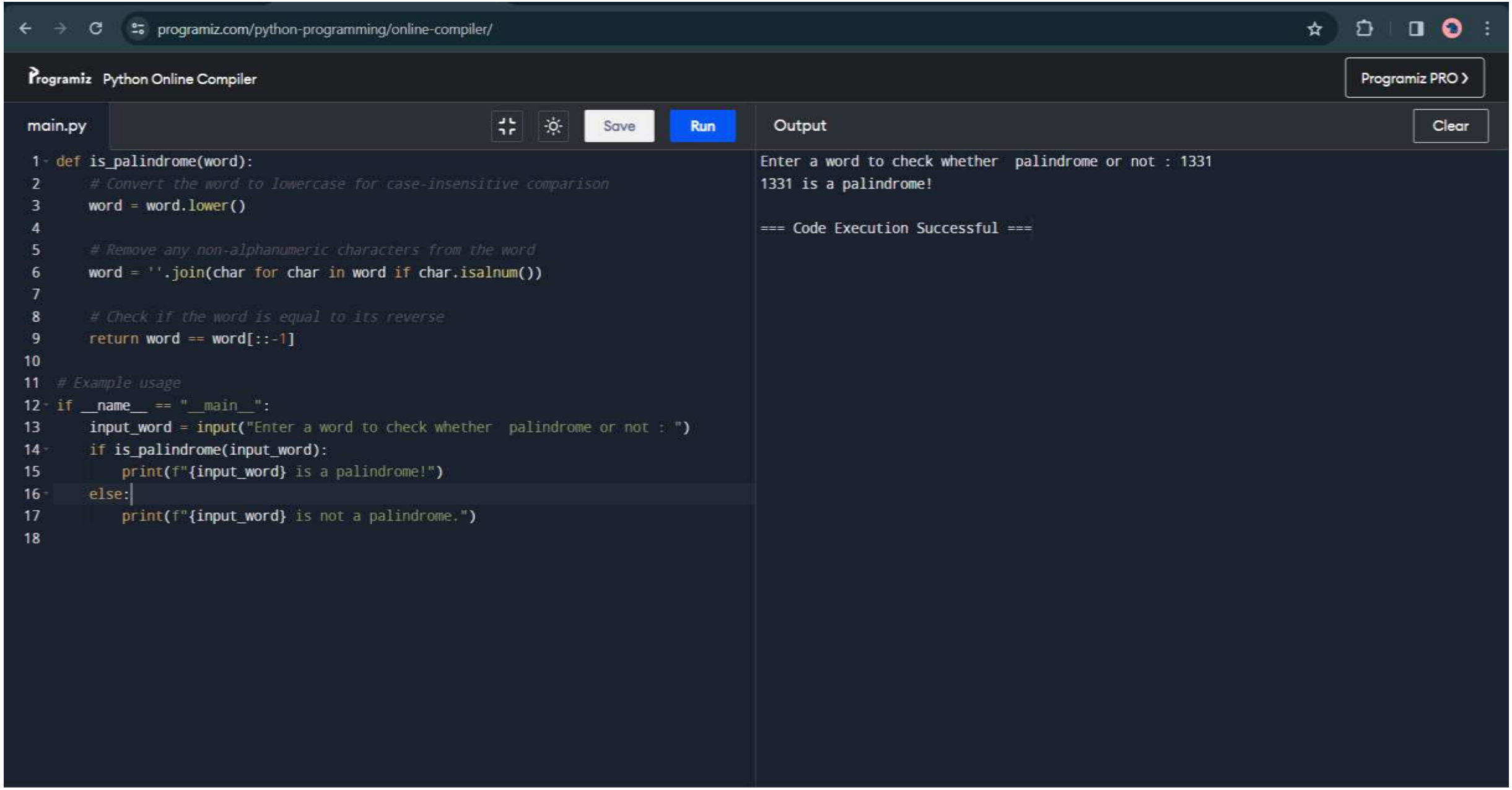
Output

Clear

```
Word Frequencies:
python: 1
is: 1
a: 1
widely: 1
used: 1
high-level: 1
programming: 2
language: 1
for: 1
general-purpose: 1
created: 1
by: 1
guido: 1
van: 1
rossum: 1
and: 1
first: 1
released: 1
in: 1
1991: 1

=== Code Execution Successful ===
```

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



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