## Task:-2

```
Code Snippet :-1
def count_word_frequencies(text):
  words = text.split()
  word_freq = {}
  for word in words:
    word=word. Strip(".!;'\"(){}[]")
    word=word.lower()
    if word in word_freq:
      word_freq[word] += 1
    else:
      word_freq[word] = 1
 return word_freq
if _name_ == "_main_":
  text = "hi i am dev."
  frequencies = count_word_frequencies(text)
  print("Word frequencies:")
  for word, freq in frequencies.items():
    print(f"{word}: {freq}")
Code Snippet:-2
def is_palindrome(word):
  cleaned_word = ".join(char.lower() for char in word if char.isalnum())
 return cleaned_word == cleaned_word[::-1]
if _name_ == "_main_":
  word = input("Enter a word to check if it is a palindrome: ")
  if is_palindrome(word):
    print(f"'{word}' is a palindrome.")
  else:
    print(f"'{word}' is not a palindrome.")
```

## Code Snippet:-3

```
numbers = [1, 2, 3, 4, 5]

def print_squares(numbers):
    for number in numbers:
        print(f"The square of {number} is {number ** 2}")

if _name_ == "_main_":
    print_squares(numbers)
```