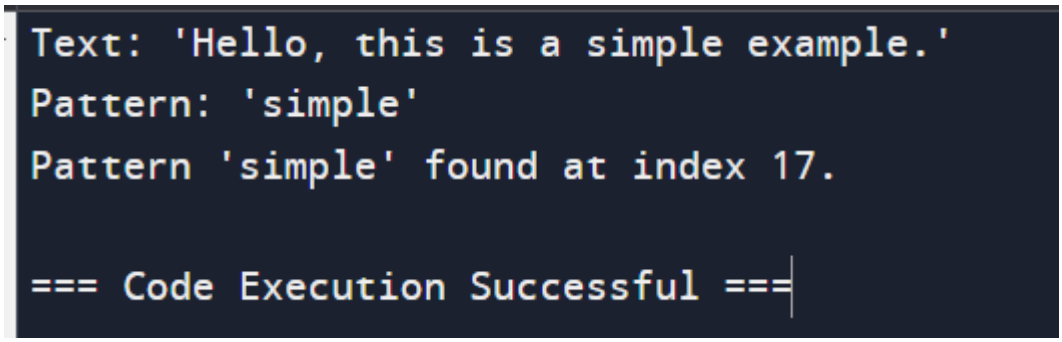
75.WRITE A PYTHON PROGRAM OF BRUTE FORCE STRING

PROGRAM:-

```
def brute_force_string_search(text, pattern):
    n = len(text)
    m = len(pattern)

    # Loop through the main string
    for i in range(n - m + 1):
        # Check for a match
        j = 0
        while j < m and text[i + j] == pattern[j]:
            j += 1
        if j == m:
            return i
    return -1

# Example usage
if __name__ == "__main__":
    text = "Hello, this is a simple example."
    pattern = "simple"

    print(f"Text: '{text}'")
    print(f"Pattern: '{pattern}'")

    result = brute_force_string_search(text, pattern)

    if result != -1:
        print(f"Pattern '{pattern}' found at index {result}.")
    else:
        print(f"Pattern '{pattern}' not found in the text.")
```

OUTPUT:-



TIME COMPLEXITY:-O(n*m)