102. Word Breaking

AIM:To determione if a given string can be segments into space seperated words

PROGRAM:

```
def word_break(s, wordDict):
    n = len(s)
    # dp[i] will be True if substring s[0...i-1] can be segmented into words from the dictionary
    dp = [False] * (n + 1)
    dp[0] = True

    for i in range(1, n + 1):
        for j in range(i):
            if dp[j] and s[j:i] in wordDict:
                dp[i] = True
                break

    return dp[n]
s = "leetcode"
wordDict = ["leet", "code"]
print("Can the string be segmented into dictionary words?", word_break(s, wordDict))
```


OUTPUT:

TIME COMPLEXITY: $O(n^2)$