116. Subset Sum Proble

Code:

```
def is_subset_sum(nums, target_sum):
    n = len(nums)
    dp = [[False] * (target_sum + 1) for _ in range(n + 1)]

    for i in range(n + 1):
        dp[i][0] = True

    for i in range(1, n + 1):
        for j in range(1, target_sum + 1):
            if nums[i - 1] > j:
                dp[i][j] = dp[i - 1][j]
            else:
                dp[i][j] = dp[i - 1][j] or dp[i - 1][j - nums[i - 1]]

    return dp[n][target_sum]

nums = [3, 34, 4, 12, 5, 2]
target_sum = 9
print(is_subset_sum(nums, target_sum))
```

output:

```
PS C:\Users\karth>
PS C:\Users\karth> & C:/Users/karth/AppData/Local/Programs/Python/Python312/python.exe c:/Users/karth/OneDrive/Documents/OriginLab/problem.py
True
PS C:\Users\karth>
```

Time complexity:f(n)=0(n*n)