1.Python Program for coin change.

**Code:**

def count(S, m, n):

table = [[0 for x in range(m)] for x in range(n+1)]

for i in range(m):

table[0][i] = 1

for i in range(1, n+1):

for j in range(m):

x = table[i - S[j]][j] if i-S[j] >= 0 else 0

y = table[i][j-1] if j >= 1 else 0

table[i][j] = x + y

return table[n][m-1]

# main

arr = [1, 3, 2, 4]

m = len(arr)

n = 5

print('Number of coins:',count(arr, m, n))

**Output:**

