138.You are climbing a staircase. It takes n steps to reach the top. Each time you can either climb 1 or 2 steps. In how many distinct ways can you climb to the top?

Examples:

(i) Input: n=4 Output: 5

AIM:To find the climbing stairs

PROGRAM:

```
def climbStairs(n):
    if n == 0:
        return 1

    if n == 1:
        return 1
        dp = [0] * (n + 1)
    dp[0] = 1
    dp[1] = 1
        for i in range(2, n + 1):
        dp[i] = dp[i - 1] + dp[i - 2]
        return dp[n]

print(climbStairs(4))
```

OUTPUT:

```
5
```

TIME COMPLEXITY: O(n)