Problem – 2 Coin Change 2

```
def coin_change_ways(coins, target):
    dp = [0] * (target + 1)
    dp[0] = 1

for coin in coins:
    for i in range(coin, target + 1):
        dp[i] += dp[i - coin]

return dp[target]

coins = [1, 2, 5]
target = 10

ways = coin_change_ways(coins, target)
print(f"The number of ways to make a coin change for target {target} is: {ways}")
```

```
The number of ways to make a coin change for target 10 is: 10

...Program finished with exit code 0

Press ENTER to exit console.
```