111) Coin change problem

CODE:

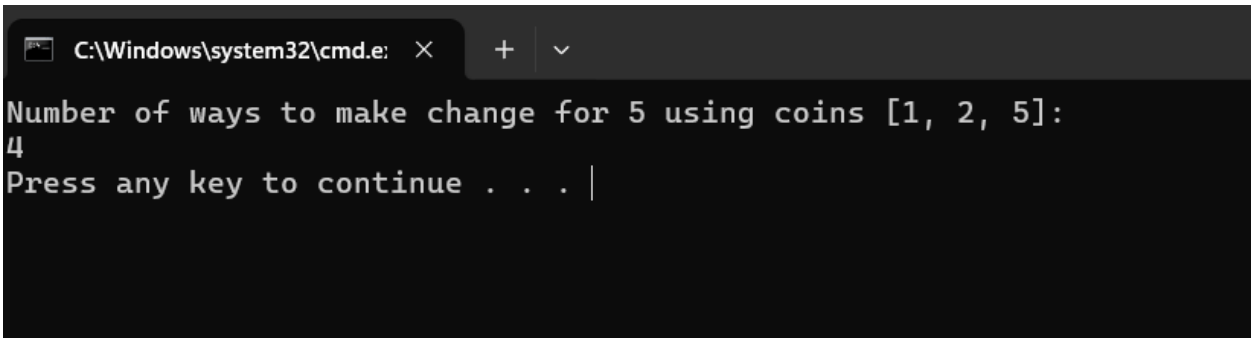
```
def coin_change(coins, amount):
    dp = [0] * (amount + 1)
    dp[0] = 1

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

    return dp[amount]

if __name__ == "__main__":
    coins = [1, 2, 5]
    amount = 5
    print(f"Number of ways to make change for {amount} using coins {coins}:")
    print(coin_change(coins, amount))
```

OUTPUT:



TIME COMPLEXITY : O(V*E)