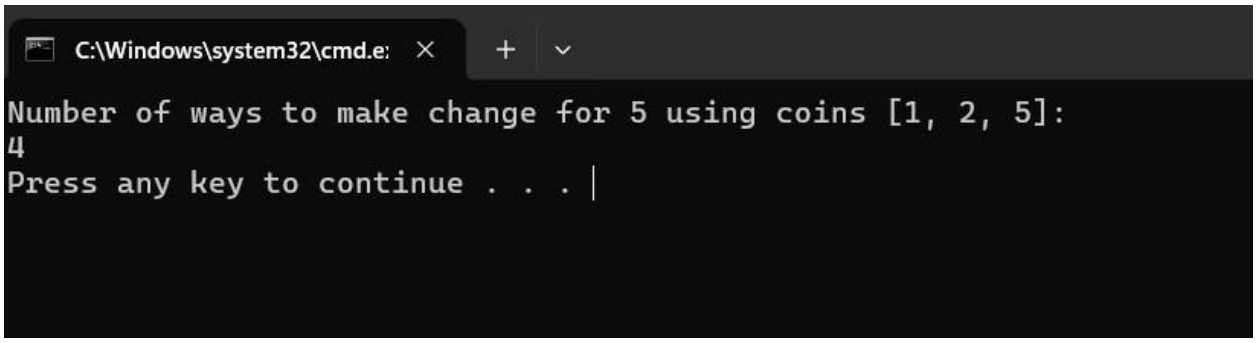
111) Coin change problem

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)