88. Coin Change Problem

AIM: To solve the coin change problem by Greedy Technique

PROGRAM:

```python
def coin_change(coins, amount):
    dp = [float('inf')] * (amount + 1)
    dp[0] = 0
    for coin in coins:
        for i in range(coin, amount + 1):
            dp[i] = min(dp[i], dp[i - coin] + 1)
    return dp[amount] if dp[amount] != float('inf') else -1
coins = [1, 2, 5]
amount = 11
print(coin_change(coins, amount))
```

OUTPUT: `the change for 11 is :  3`

TIME COMPLEXITY: O(n log n)