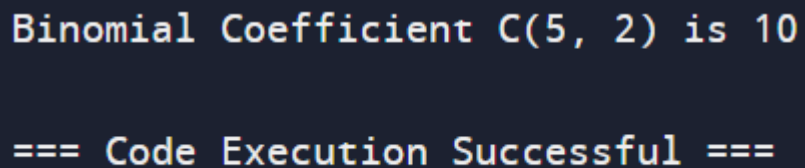105. Computing Binomial Coefficient

PROGRAM:-
```python
def binomial_coefficient(n, k):
    # Initialize a 2D array to store results of subproblems
    C = [[0 for _ in range(k + 1)] for _ in range(n + 1)]

    # Calculate value of Binomial Coefficient in bottom-up manner
    for i in range(n + 1):
        for j in range(min(i, k) + 1):
            # Base Cases
            if j == 0 or j == i:
                C[i][j] = 1
            else:
                # Calculate value using previously stored values
                C[i][j] = C[i - 1][j - 1] + C[i - 1][j]

    return C[n][k]

# Example usage:
n = 5
k = 2
print(f"Binomial Coefficient C({n}, {k}) is {binomial_coefficient(n, k)}")
```

OUTPUT:-

```
Binomial Coefficient C(5, 2) is 10

=== Code Execution Successful ===
```

TIME COMPLEXITY:-O(n*k)