**Name of Student: Raheel Kotwal**

**Roll Number: 45**

**Experiment Number: 15**

**Title: Hollow Box Star Pattern**

**Theory:**  The following code creates a number pattern such that it matches the half of the pascal triangle logic for output.

**Code:**

**#include <iostream>**

**using namespace std;**

**int main() {**

**int n;**

**cout << "Enter the number of rows: ";**

**cin >> n;**

**for (int i = 1; i <= n; ++i) {**

**for (int j = i; j < i \* 2; ++j) {**

**cout << j;**

**}**

**for (int j = i \* 2 - 2; j >= i; --j) {**

**cout << j;**

**}**

**cout << endl;**

**}**

**for (int i = n - 1; i >= 1; --i) {**

**for (int j = i; j < i \* 2; ++j) {**

**cout << j;**

**}**

**for (int j = i \* 2 - 2; j >= i; --j) {**

**cout << j;**

**}**

**cout << endl;**

**}**

**return 0;**

**}**

**Output:(screenshot):**

