**using** **namespace** std;

// Prints diamond pattern with 2n rows

**void** printDiamond(**int** n)

{

**int** space = n - 1;

    // run loop (parent loop)

    // till number of rows

**for** (**int** i = 0; i < n; i++)

    {

        // loop for initially space,

        // before star printing

**for** (**int** j = 0;j < space; j++)

            cout << " ";

        // Print i+1 stars

**for** (**int** j = 0; j <= i; j++)

            cout << "\* ";

        cout << endl;

        space--;

    }

    // Repeat again in reverse order

    space = 0;

    // run loop (parent loop)

    // till number of rows

**for** (**int** i = n; i > 0; i--)

    {

        // loop for initially space,

        // before star printing

**for** (**int** j = 0; j < space; j++)

            cout << " ";

        // Print i stars

**for** (**int** j = 0;j < i;j++)

            cout << "\* ";

        cout << endl;

        space++;

    }

}

// Driver code

**int** main()

{

    printDiamond(5);

**return** 0;

}