**34. Print diamond pattern with \* using nested for loop**

**Program:**

#include <iostream>

int main() {

int n, i, j, space = 1;

std::cout << "Enter the number of rows (odd number) for the diamond pattern: ";

std::cin >> n;

int mid = (n + 1) / 2;

for (i = 1; i <= mid; ++i) {

for (j = 1; j <= mid - i; ++j) {

std::cout << " ";

}

for (j = 1; j <= 2 \* i - 1; ++j) {

std::cout << "\*";

}

std::cout << std::endl;

}

for (i = mid - 1; i >= 1; --i) {

for (j = 1; j <= mid - i; ++j) {

std::cout << " ";

}

for (j = 1; j <= 2 \* i - 1; ++j) {

std::cout << "\*";

}

std::cout << std::endl;

}

return 0;

}

**OUTPUT:**

