1. rows = int(input("Enter the number of rows: "))

# Upper half (inverted triangle)

for i in range(rows, 0, -1):

for space in range(rows - i):

print(" ", end="") # Leading spaces

for star in range(i):

print("\*", end=" ")

print()

**OUTPUT:**

Enter the number of rows: 5

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

=== Code Execution Successful ===

1. rows = int(input("Enter the number of rows: "))

for i in range(1, rows + 1):

for space in range(rows - i):

print(" ", end="") # Leading spaces

for star in range(i):

print("\*", end=" ")

print()

**OUTPUT:**

Enter the number of rows: 5

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

=== Code Execution Successful ===

1. rows = int(input("Enter the number of rows: "))

# Upper half (inverted triangle)

for i in range(rows, 0, -1):

for space in range(rows - i):

print(" ", end="") # Leading spaces

for star in range(i):

print("\*", end=" ")

print()

# Lower half (normal triangle)

for i in range(2, rows + 1):

for space in range(rows - i):

print(" ", end="") # Leading spaces

for star in range(i):

print("\*", end=" ")

print()

**OUTPUT:**

Enter the number of rows: 5

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

=== Code Execution Successful ===

1. rows=int(input("Enter the number of the rows:"))

for i in range(1,rows+1):

print("\*"\*i,end=" ")

print(" "\*(2\*(rows-i)),end="")

print("\*"\*i)

for i in range(rows,0,-1):

print("\*"\*i,end=" ")

print(" "\*(2\*(rows-i)),end=" ")

print("\*"\*i)

**OUTPUT:**

Enter the number of the rows:5

\* \*

\*\* \*\*

\*\*\* \*\*\*

\*\*\*\* \*\*\*\*

\*\*\*\*\* \*\*\*\*\*

\*\*\*\*\* \*\*\*\*\*

\*\*\*\* \*\*\*\*

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\*\* \*\*

\* \*

=== Code Execution Successful ===

1. def zero\_one\_triangle(rows):

for i in range(rows):

for j in range(i + 1):

if (i + j) % 2 == 0:

print("1", end=" ")

else:

print("0", end=" ")

print()

zero\_one\_triangle(5)

**OUTPUT:**

1

0 1

1 0 1

0 1 0 1

1 0 1 0 1

=== Code Execution Successful ===

1. def floyds\_triangle(rows):

number = 1

for i in range(1, rows + 1):

for j in range(i):

print(number, end=" ")

number += 1

print()

rows = int(input("Enter the number of rows: "))

floyds\_triangle(rows)

**OUTPUT:**

Enter the number of rows: 5

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

=== Code Execution Successful ===

1. n = 4

for i in range(n):

print(" " \* (n - i - 1) + "\*" \* (2 \* i + 1))

for i in range(n - 2, -1, -1):

print(" " \* (n - i - 1) + "\*" \* (2 \* i + 1))

**OUTPUT:**

\*

\*\*\*

\*\*\*\*\*

\*\*\*\*\*\*\*

\*\*\*\*\*

\*\*\*

\*

=== Code Execution Successful ===

1. s="ABCDE"

for i in range(1,len(s)+1):

print(s[:i])

**OUTPUT:**

A

AB

ABC

ABCD

ABCDE

=== Code Execution Successful ===

1. s = "ABCDE"

for i in range(len(s), 0, -1):

print(s[:i])

**OUTPUT:**

ABCDE

ABCD

ABC

AB

A

=== Code Execution Successful ===

rows = int(input("Enter the number of rows: "))

for i in range(rows, 0, -1):

for space in range(rows - i):

print(" ", end="")

for star in range(i):

print("\*", end=" ")

print()

rows = int(input("Enter the number of rows: "))

for i in range(1, rows + 1):

for space in range(rows - i):

print(" ", end="")

for star in range(i):

print("\*", end=" ")

print()

rows = int(input("Enter the number of rows: "))

for i in range(rows, 0, -1):

for space in range(rows - i):

print(" ", end="")

for star in range(i):

print("\*", end=" ")

print()

# Lower half (normal triangle)

for i in range(2, rows + 1):

for space in range(rows - i):

print(" ", end="") # Leading spaces

for star in range(i):

print("\*", end=" ")

print()

rows=int(input("Enter the number of the rows:"))

for i in range(1,rows+1):

print("\*"\*i,end=" ")

print(" "\*(2\*(rows-i)),end="")

print("\*"\*i)

for i in range(rows,0,-1):

print("\*"\*i,end=" ")

print(" "\*(2\*(rows-i)),end=" ")

print("\*"\*i)

def zero\_one\_triangle(rows):

for i in range(rows):

for j in range(i + 1):

if (i + j) % 2 == 0:

print("1", end=" ")

else:

print("0", end=" ")

print()

zero\_one\_triangle(5)

def floyds\_triangle(rows):

number = 1

for i in range(1, rows + 1):

for j in range(i):

print(number, end=" ")

number += 1

print()

rows = int(input("Enter the number of rows: "))

floyds\_triangle(rows)

n = 4

for i in range(n):

print(" " \* (n - i - 1) + "\*" \* (2 \* i + 1))

for i in range(n - 2, -1, -1):

print(" " \* (n - i - 1) + "\*" \* (2 \* i + 1))

s="ABCDE"

for i in range(1,len(s)+1):

print(s[:i])

s = "ABCDE"

for i in range(len(s), 0, -1):

print(s[:i])