1. **Pattern**

**Code:**

#include <stdio.h>

// Recursive function to print the pattern

void printPattern(int n, int row, int col) {

// Base case: if the current row exceeds n, return

if (row > n)

return;

// Print numbers from 1 to col

if (col <= row) {

printf("%d ", col);

printPattern(n, row, col + 1);

} else {

// Move to the next row

printf("\n");

printPattern(n, row + 1, 1);

}

}

int main() {

int n;

// Input value of n from the user

printf("Enter the value of n: ");

scanf("%d", &n);

// Call the recursive function to print the pattern

printPattern(n, 1, 1);

return 0;

}

**Output:**

Enter the value of n: 4

1

1 2

1 2 3

1 2 3 4

--------------------------------

Process exited after 1.949 seconds with return value 0

Press any key to continue . . .

