12.PASCALS TRIANGLE

#include <stdio.h>

int binomialCoefficient(int n,int k)

{

if(k==0||k==n)

return 1;

return binomialCoefficient(n-1,k-1)+binomialCoefficient(n-1,k);

}

void generatePascalsTriangle(int rows)

{

for (int i=0;i<rows;i++)

{

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

{

printf("%d ", binomialCoefficient(i,j));

}

printf("\n");

}

}

int main()

{

int rows;

printf("Enter the number of rows for Pascal's Triangle: ");

scanf("%d",&rows);

if (rows<=0)

{

printf("Invalid input.\n");

return 1;

}else

generatePascalsTriangle(rows);

return 0;

}

OUTPUT

