HATFD1035

Print Pascal's Triangle

Write a program to generate and print the first n rows of Pascal's triangle without using built-in math or

array functions. For n = 5, the output should be:

```
1
11
121
1331
14641
Solution:
```

int a;

```
C Program
#include <stdio.h>
void Pascaltriangle(int a) {
  for (int row = 1; row <= a; row++) {
    for (int j = 0; j \le a - row; j++) {
       printf(" ");
    }
    int Num = 1;
    for (int i = 1; i \le row; i++) {
       printf("%d ", Num);
       Num = Num * (row - i) / i;
    }
    printf("\n");
  }
  }
int main() {
```

```
printf("Enter no of triangle: ");
  scanf("%d", &a);
  Pascaltriangle(a);
  return 0;
}
Sample input 1:
Enter no of triangle: 7
   1
  11
  121
  1331
 14641
15101051
1615201561
Sample input 2:
Enter no of triangle: 8
   1
   11
  121
  1331
  14641
 15101051
1615201561
172135352171
Sample input 3: Enter no of triangle: 6
```