```
from math import factorial
n=int(input())
for i in range(n):
  for j in range(n-i+1):
    print(" ",end="")
  for j in range(i+1):
    print(factorial(i)//(factorial(j)*factorial(i-j)),end=" ")
  print()
output:
       1
      1
         1
     1 2 1
   1 3 3 1
 1 4 6 4 1
Program:
Input
def cross_pattern(input_val):
  input_val=str(input_val)
  length=len(input_val)
  for i in range(length):
    for j in range(length):
      if i==j or j==length-i-1:
         print(input_val[j],end=" ")
      else:
         print(" ",end=" ")
    print()
```

Pascal triangle:

```
a=input()
cross_pattern(a)
output:
m
                         a
   e
                    n
      g
               а
          h
      g
               а
   e
                   n
m
                        а
program:
def cross_pattern(n):
  for i in range(n):
    for j in range(n):
      value=min(i,j,n-i-1,n-j-1)
      print(value,end=" ")
    print()
a=int(input())
cross_pattern(a)
output:
5
00000
01110
01210
01110
00000
```

```
Program:
n=int(input())
for i in range(n):
  for j in range(n-i):
    print(" ",end="")
  for j in range(2*i+1):
    if j==0 or j==2*i or i==n-1:
      print("*",end="")
    else:
      print(" ",end="")
  print()
output:
5
Program:
n=int(input())
for i in range(n):
  for j in range(n-i):
    print(" ",end="")
  for j in range(i+1):
    if j==0 or j==i or i==n-1:
       print("*",end=" ")
    else:
      print(" ",end="")
  print()
```

output:

5

\*

\* \*

\* \*

\* \*

\* \* \* \* \*