

```
<u>코드</u> 1
```

```
n = int(input("Enter n : "))
m = int(input("Enter m : "))
while(n>=m>=0):
    def RecursiveSum(n):
        if n==0:
            return 1
        else:
            return RecursiveSum(n-1) * n
    print("C(%d,%d) = %d " %(n,m,RecursiveSum(n)/(RecursiveSum(m)*RecursiveSum(n)
    n = int(input("Enter n : "))
    m = int(input("Enter m : "))
```

코드1 실행

```
Enter n: 5
Enter m: 4
C(5,4) = 5
Enter n: 0
Enter m : 0
C(0,0) = 1
Enter n: 1
Enter m : 1
C(1,1) = 1
Enter n: 0
Enter m : 2
>>>
   Enter n: aa
Traceback (most recent call last):
 File "/home/n0y0j/바탕화면/하꾸니코.py", line 1, in <module>
   n = int(input("Enter n : "))
ValueError: invalid literal for int() with base 10: 'aa'
>>>
```

```
def Combination(n, m):
                               if n == 0:
                                   if m == 0:
                                       return 1
                                   return 0
                               elif m == 0:
                                   return 1
                               else:
                                   return Combination(n-1, m) + Combination
코드 2
                          ∀while True:
                               try:
                                   a = int(input("Enter your 'm': "))
                                   b = int(input("Enter your 'n': "))
                               except ValueError:
                                   print("다시 입력")
                               except NameError:
                                   print("다시 입력")
                               print("%d C %d = %d" % (a, b, Combination(a,
```

코드 2 실행

```
/Library/Frameworks/Python.tramework,
Enter your 'm': 5
Enter your 'n': 2
5 C 2 = 10
Enter your 'm': 0
Enter your 'n': 0
0 \ C \ 0 = 1
Enter your 'm': 1
Enter your 'n': 0
1 \ C \ 0 = 1
Enter your 'm': 6
Enter your 'n': 2
6 C 2 = 15
Enter your 'm': 0
Enter your 'n': 1
0 \ C \ 1 = 0
Enter your 'm':
```

```
def Combination(s,t):
    if s==t :
        return 1
    elif t == 0 :
        return 1
    elif s == 0:
        return 0
    elif t<0:
        return 0
while True:
    try:
        if n<0:
            break
        elif n>=0:
```

```
return Combination(s-1,t-1) + Combination(s-1, t)
   n = int(input("Enter n: "))
       m = int(input("Enter m: "))
       print("C(%d,%d) = %d" % (n, m, Combination(n, m)))
except (RecursionError, ValueError):
   print("입력된 수가 올바르지 않습니다. 다시 입력해주세요")
```

파스칼 삼각형

Ex) 3C2 = 2C1 + 2C2

코드 실행

```
Enter n: 0
Enter m: 0
C(0,0) = 1
Enter n: 2
Enter m: 0
C(2,0) = 1
Enter n: 0
Enter m: 2
C(0,2) = 0
Enter n: 2
Enter m: 3
입력된 수가 올바르지 않습니다. 다시 입력해주세요
Enter n: aaa
입력된 수가 올바르지 않습니다. 다시 입력해주세요
Enter n: 하꾸니
입력된 수가 올바르지 않습니다. 다시 입력해주세요
Enter n: 4
Enter m: 3
C(4,3) = 4
Enter n: 6
Enter m: 4
C(6,4) = 15
Enter n: -1
```