

Write code in python to print following patterns:-

1. Code:

```
n=int(input("Enter the Number of Rows: "))
k=n
for i in range(n,0,-1):
   for j in range (0,i):
     print(,end='')
print()
```

# **Output:**

```
5 5 5 5 5
5 5 5 5
5 5 5
5 5
5 5
```

#### 2. Code:

```
n=int(input("Enter the Number of Rows: "))
k=0
for i in range (n,0,-1):
    k+=1
    for j in range(0,i+1):
        print(j,end='')
    print(" ")
```

# **Output:**

```
0 1 2 3 4 5
0 1 2 3 4
0 1 2 3
0 1 2
0 1
```

### 3. Code:

```
n=int(input("Enter the Number of Rows: "))
k=-1
for i in range (n):
    k+=2
    for j in range(i+1):
        print(k,end='')
    print(" ")
```

```
1
33
555
7777
9999
```



```
4. Code:
```

```
n=int(input("Enter the Number of Rows: "))
for i in range(n+2):
   for j in range(i-1,0,-1):
      print(j,end="")
   print(' ')
```

## Output:

```
1
21
321
4321
54321
```

#### 5.Code:

```
n=int(input("Enter the numbers: " ))
start = 1
stop = 2
currentNumber = stop
for row in range(stop, n):
    for col in range(start, stop):
        currentNumber -= 1
        print(currentNumber , end=' ')
    print(" ")
    start = stop
    stop += row
    currentNumber = stop
```

```
1
3 2
6 5 4
10 9 8 7
```



### 6. Code:

```
def decide_number(n, k):
    num = 1
    if k > n - k:
        k = n - k
    for i in range(0, k):
        num = num * (n - i)
        num = num // (i + 1)
    return num

size=int(input("Enter the number of Rows: " ))
for i in range(0, size):
    for j in range(0, i + 1):
        print(decide_number(i, j), end=" ")
    print()
```

## **Output:**

```
1
11
121
1331
14641
15101051
1615201561
```

# 7. **Code:**

```
rows=int(input("Enter the number of Rows: " ))
for i in range(1, rows + 1):
    for j in range(1, rows + 1):
        if j <= i:
            print(i, end=' ')
        else:
            print(j, end=' ')
        print()</pre>
```

```
1 2 3 4 5
2 2 3 4 5
3 3 3 4 5
4 4 4 4 5
5 5 5 5 5
```



### 8. Code:

```
rows = int(input("Enter the number of rows "))
for i in range(1, rows + 1):
    for j in range(1, i + 1):
        print(i * j, end=' ')
    print()
```

# **Output:**

```
1
2 4
3 6 9
4 8 12 16
5 10 15 20 25
6 12 18 24 30 36
7 14 21 28 35 42 49
8 16 24 32 40 48 56 64
```

#### 9. Code:

```
n=int(input("Enter the Number of Rows"))
for i in range(n,0,-1):
    for j in range (0,i):
        print("*",end="")
    print()
```

# **Output:**

```
* * * * * *

* * * * *

* * * *

* * *

* * *
```

#### 10. Code:

```
n= int(input("Enter the number of rows "))
for i in range (0,n):
   for j in range (0,i+1):
      print("*", end="")
   print()
```



11. Code:

```
n=int(input("Enter the Number of Rows"))
for i in range(0,n):
  for j in range (0,i+1):
    print("*",end="")
  print()
print('')
for i in range(n,0,-1):
  for j in range (0,i):
    print("*",end="")
  print()
Output:
12. Code:
n=int(input("Enter the Number of Rows"))
for i in range(0,n):
  for j in range (0,i):
    print("*",end="")
```

**Output:** 

print()

print()

for i in range(n,0,-1):
 for j in range (0,i):
 print("\*",end="")



```
13. Code:
n=int(input("Enter the Number of Rows"))
for i in range(0,n):
  for j in range (0,i):
    print("*",end="")
 print()
for i in range(n,0,-1):
 for j in range (0,i):
    print("*",end="")
 print()
Output:
14. Code:
n = int(input("Enter the number of rows "))
\# n=5
for i in range(n,0,-1):
 for j in range (0,i):
   print("*",end="")
 print()
for i in range(0,n):
 for j in range (0,i+1):
    print("*",end="")
```

```
Output:
```

print()



```
15.Code:
rows = int(input("Enter the number of rows "))
print("*" * rows, end="\n")
i = (rows // 2) - 1
j = 2
while i != 0:
    while j <= (rows - 2):
        print("*" * i, end="")
        print("_" * j, end="")
        print("*" * i, end="")
        i-=1
        j+=2</pre>
```