Write a program to print the triangle

```
k=1
n=int(input("enter n value: "))
for i in range(0,n):
    if(i>=2):
        k=i+1
    for j in range(0,i+1):
        print(k,end=" ")
        k=k+1
    print()

C→ enter n value: 4
    1
    2 3
    3 4 5
    4 5 6 7
```

python program to print pattern

```
rows =int(input("enter num: "))
for i in range(0, rows):
    for j in range(0, i + 1):
        print("*", end=' ')

    print("\r")

C    enter num: 4
    *
    * *
    * *
    * *
    * *
    * *
    * *
    * *
    * *
    * *
    * *
    * *
    * *
```

pattren program

```
n=int(input("enter n value: "))
for i in range(n+1,0,-1):
    for j in range(i,n+1):
        print(j,end=" ")

print()

print()

enter n value: 5

4 5

3 4 5

2 3 4 5

1 2 3 4 5
```

pattern program

```
rows = int(input("enter num : "))
for i in range(0, rows + 1):
    for j in range(rows - i, 0, -1):
        print(j, end=' ')
    print()

C + enter num : 5
    5 4 3 2 1
    4 3 2 1
    3 2 1
    2 1
    1
    1
}
```

pattern program

```
rows = 5
n=rows-1
for i in range(1, rows-1):
    for j in range(i,rows):
```

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

C> 1 2 3 4
    2 3 4
    3 4
    4
    3 4
    2 3 4
    1 2 3 4
```

▼ Find the length of a string without using len functions

Find the no of words and characters in a string

```
Enter string:python program
Number of words in the string:
2
Number of characters in the string:
14
```

▼ Find the no of occurrences of each word in a string