

pgm pattern.py - C:/Users/USER/Dropbox/My PC (LAPTOP-36R5N85L)/Documents/sanjay python programs/pg

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```
n=int(input("enter the number of lines : "))
for i in range(1,n+1):
    for s in range(n-i,0,-1):
        print(' ',end='')
    for j in range(1,i+1):
        print(j,end='')
    print()
```

IDLE Shell 3.10.4

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Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

= RESTART: C:/Users/USER/Dropbox/My PC (LAPTOP-36R5N85L)/Documents/sanjay programs/pgm pattern.py

enter the number of lines : 5

```
1
 12
 123
1234
12345
```

>>>



pattern.py - C:\Users\shareef\Documents\python vivek\pattern.py (3.10.4)

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```
n=int(input("enter the lines:"))
coef = 1
for i in range (1,n+1):
    for s in range(1,n-i+1):
        print(" ",end="")
    for j in range(0,i):
        if(j==0 or i==0):
            coef=1
        else:
            coef = coef * (i-j)//j;
        print(coef,end=" ")
    print()
```

IDLE Shell 3.10.4

File Edit Shell Debug Options Window Help

Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23: AMD64) on win32

Type "help", "copyright", "credits" or "license()" for

>>>

==== RESTART: C:\Users\shareef\Documents\python

>>> enter the lines:5

```
1
2 1
3 3 1
4 6 4 1
```

>>>



## OUTPUT

```
['H', 'W', 'T', 'T', 'W', 'O', 'P']
```

**Program 8.8 Write a program to remove all duplicates from a list.**

```
num_list = [1,2,3,4,5,6,7,6,5,4]
print("Original list : ", num_list)
i=0
while i<len(num_list):
    num = num_list[i]
    for j in range(i+1, len(num_list)):
        val = num_list[j]
        if val == num:
            num_list.pop(j)
    i = i + 1
print("List after removing duplicates : ", num_list)
```

## OUTPUT

Original list : [1, 2, 3, 4, 5, 6, 7, 6, 5, 4]

List after removing duplicates : [1, 2, 3, 4, 5, 6, 7]

**Program 8.9 Write a program to create a list of numbers in the specified steps. Reverse the list and print its values.**



pgm2.py - C:/Users/USER/Dropbox/My PC (LAPTOP-36R5N85L)/Documents/sanjay python programs/

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```
# SANJAY 192110700    printing the letters in alphabetical order
s=input("Enter the string : ")
l=[]
for i in s:
    m=ord(i)
    l.append(m)
l.sort()
for i in l:
    k=chr(i)
    print(k,end=' ')
```

IDLE Shell 3.10.4

File Edit Shell Debug Options Window Help

Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

= RESTART: C:/Users/USER/Dropbox/My PC (LAPTOP-36R5N85L)/Documents/sanjay python programs/pgm2.py

Enter the string : sanjay

a a j n s y

>>>



pgm2.py - C:/Users/USER/Dropbox/My PC (LAPTOP-36R5N85L)/Documents/sanjay python programs/pgm2.py (3.10.4)

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```
# SANJAY 192110700    printing the alphabetical order in alphabetical order
s=["sanjay","ball","sanjay","sanjay2","apple"]
s.sort()
print(s)
```

IDLE Shell 3.10.4

File Edit Shell Debug Options Window Help

Python 3.10.4 (tags/v3.10.4:9d38120,  
Mar 23 2022, 23:13:41) [MSC v.1929 64  
bit (AMD64)] on win32  
Type "help", "copyright", "credits" o  
r "license()" for more information.

>>>

= RESTART: C:/Users/USER/Dropbox/My P  
C (LAPTOP-36R5N85L)/Documents/sanjay  
python programs/pgm2.py  
['apple', 'ball', 'sanjay', 'sanjay',  
'sanjay2']

>>> |

Ln: 6 Col: 0



\*pgm2.py - C:/Users/USER/Dropbox/My PC (LAPTOP-36R5N85L)/Documents/sanjay python programs/pgm

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```
# SANJAY 192110700 |printing the letters in alphabetical order
```

```
s=input("Enter the string : ")
```

```
l=[]
```

```
for i in s:
```

```
    m=ord(i)
```

```
    l.append(m)
```

```
print(l)
```

```
l.sort()
```

```
print(l)
```

```
for i in l:
```

```
    p=chr(i)
```

```
    print(p,end=' ')
```