

1. Write a program which accepts a sequence of comma-separated numbers from console and generate a list.

```
In [1]: inputData = input("Input some comma seprated numbers : ")
result = inputData.split(",")
print('Sorted List :', sorted(result, key=int, reverse=False))
```

Input some comma seprated numbers : 2,4,6,88,99,1,2,556,8,33,2
Sorted List : ['1', '2', '2', '2', '4', '6', '8', '33', '88', '99', '556']

In [2]: *# 2. Create the below pattern using nested for loop in Python.*

```
# *
# * *
# * * *
# * * * *
# * * * * *
# * * * *
# * * *
# * *
# *
```

```
In [3]: n =5;
charToPrint = '*'

for i in range(n):
    for j in range(i):
        print (charToPrint, end = "")
    print('')

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

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

3. Program to reverse a string

```
In [4]: inputWord = input("Please enter a word to reverse: ")
for char in range(len(inputWord) - 1, -1, -1):
    print(inputWord[char], end = '')

print("\n")
```

```
Please enter a word to reverse: AcadGild
dliGdacA
```

4. Write a Python Program to print the given string in the format specified in the sample output.

```
In [5]: data = "WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a SOVEREIGN, SOCIALIST, SE  
CULAR, DEMOCRATIC REPUBLIC and to secure to all its citizens"  
  
breaks =[0,25,88,128]  
breaks.append(len(data))  
  
print('\n'.join( [data[breaks[var] : breaks[var+1]] for var in range(0, len(breaks)-1)]))
```

```
WE, THE PEOPLE OF INDIA,  
having solemnly resolved to constitute India into a SOVEREIGN,  
SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC  
and to secure to all its citizens
```

```
In [6]: data = "\tWE, THE PEOPLE OF INDIA,\n\t\thaving solemnly resolved to constitute India into a SOVEREIGN, \n\t\t  
\tSOCIALIST, SECULAR, DEMOCRATIC REPUBLIC \n\t\t\tand to secure to all its citizens"  
  
print(data)
```

```
WE, THE PEOPLE OF INDIA,  
    having solemnly resolved to constitute India into a SOVEREIGN,  
        SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC  
            and to secure to all its citizens
```