

```
#count the number of each vowels
for x in string:
    if x in count_vowels:
        count_vowels[x]+= 1
print('total number of vowels -',count_vowels)

enter the string:Lavanya Sree P
total number of vowels - {'a': 3, 'e': 2, 'i': 0, 'o': 0, 'u': 0}
```

DAY-11 (01-07-2023)

```
#If elif else statement

#python program to check whether the given number is positive or not
n=int(input('enter the number'))
if n>0:
    print(n,'is a positive number')
elif n==0:
    print(n,'is zero')
else:
    print(n,'is nrgative number')

enter the number7
7 is a positive number

#nested if - condition inside another condition
#python program to check whether the given number is positive or not
n=int(input('enter the number:'))
if n>=0:
    if n==0:
        print(n,'is zero')
    else:
        print(n,'is positive')
else:
    print(n,'is negative')

enter the number:0
0 is zero

#looping - it will execute in sequential order
# For loop
#syntax:
for variable name in iteration:
    body of the statement

li=[11.7,45,78,90,84,72]
for i in li:
    print(i)
```

11.7

45

78

90

84

72

#range function

```
for n in range(7):  
    print(n)
```

0

1

2

3

4

5

6

```
for v in range(5,12):  
    print(v)
```

5

6

7

8

9

10

11

```
for g in range(-4,2):  
    print(g)
```

-4

-3

-2

-1

0

1

```
for j in range(5,17,2):  
    print(j)
```

5

7

9

11

13

15

```
# To print the multiplication table using loop
```

```
n=int(input('enter the number'))  
for i in range(20):  
    print(i,'*',n,'=',i*n)
```

```
enter the number2
```

```
0 * 2 = 0  
1 * 2 = 2  
2 * 2 = 4  
3 * 2 = 6  
4 * 2 = 8  
5 * 2 = 10  
6 * 2 = 12  
7 * 2 = 14  
8 * 2 = 16  
9 * 2 = 18  
10 * 2 = 20  
11 * 2 = 22  
12 * 2 = 24  
13 * 2 = 26  
14 * 2 = 28  
15 * 2 = 30  
16 * 2 = 32  
17 * 2 = 34  
18 * 2 = 36  
19 * 2 = 38
```

```
#Grade system
```

```
COMPUTER=int(input('enter Computer marks:'))  
PHYSICS=int(input('enter Physics marks:'))  
CHEMISTRY=int(input('enter Chemistry marks:'))  
MATHS=int(input('enter Maths marks:'))  
tot=COMPUTER+PHYSICS+CHEMISTRY+MATHS  
avg=tot/4  
if(avg >=90 and avg<=100):  
    print('distinction')  
elif (avg>=80 and avg<90):  
    print('A Grade')  
elif (avg>=70 and avg<80):  
    print('B Grade')  
elif (avg>=60 and avg<70):  
    print('C Grade')  
elif (avg>=50 and avg<60):  
    print('D Grade')  
else:  
    print('E Grade')
```

```
enter Computer marks:95
enter Physics marks:90
enter Chemistry marks:98
enter Maths marks:99
distinction
```

DAY-12 (02-07-2023)

```
#Nested for loop
s=['Big','tasty']
f=['apple','pine apple']
for i in s:
    for j in f:
        print(i,j)
```

```
Big apple
Big pine apple
tasty apple
tasty pine apple
```

#write a program to print the following pattern

```
for i in range(7):
    for j in range(7):
        print('#',end=' ')
    print()
```

```
# # # # # # #
# # # # # # #
# # # # # # #
# # # # # # #
# # # # # # #
# # # # # # #
# # # # # # #
```

```
for i in range(1,6):
    print()
    for j in range(i):
        print('*',end=' ')
```

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

```
for i in range(1,6):
    print()
```

```
for j in range(i):  
    print(i,end=' ')
```

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

```
for i in range(1,6):  
    print('')  
    for j in range(1,i+1):  
        print(j,end=' ')
```

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

```
in C language  
for(i=0; i<10; i++)
```

```
#while loop in python - it will execute in sequential order  
i=0 #initialize the start value as 0  
while i<10: # condition  
    print(i)  
    i+=1 #increment(kind of step value)
```

```
0  
1  
2  
3  
4  
5  
6  
7  
8  
9
```

DAY-13(8-07-2023)

```
#python program to search for an element in the list of elements
```

```
li=[1,4,6,9,77,99,33]  
search=int(input('enter the element to search:'))  
for element in li:
```

```

    if search==element:
        print(search,'element is found')
        break
else:
    print(search,'element is not found')

enter the element to search:77
77 element is found

li=[1,4,6,9,77,99,33]
search=int(input('enter the element to search:'))
for element in li:
    if search==element:
        print(search,'element is found')

    else:
        print(search,'element is not found')

```

```

enter the element to search:77
77 element is not found
77 element is not found
77 element is not found
77 element is not found
77 element is found
77 element is not found
77 element is not found

```

```

#break
for i in range(10):
    if i==7:
        break
    print(i)

```

```

0
1
2
3
4
5
6

```

```

#continue
for i in range (10):
    if i==7:
        continue
    print(i)

```

```

0
1

```

```
2  
3  
4  
5  
6  
8  
9
```

```
# function in python
```

```
#print the 'HAVE A NICE DAY' using function
```

```
def greet():  
    print('HAVE A NICE DAY')  
greet()
```

```
HAVE A NICE DAY
```

```
#python program to find the sum of two numbers
```

```
#required argument
```

```
#argument=a,b
```

```
def add(a,b):  
    print('the value is:',a+b)  
add(50,70)  
add(5,7)
```

```
the value is: 120
```

```
the value is: 12
```

```
#PEMDAS
```

```
#return function
```

```
def div(x,y):  
    return x/y  
print('the value is:',div(8,4))  
print('the value is:',div(40,5))
```

```
the value is: 2.0
```

```
the value is: 8.0
```

```
#default argument
```

```
def bod(a,b,c=7):  
    print('the value is:',a/5*a+b-c)  
bod(50,7)  
bod(50,7,9)
```

```
the value is: 500.0
```

```
the value is: 498.0
```

```
#convert a number to its equivalent word using python
```

```
num=int(input('enter a number:'))
```