In [3]:

```
Str = "Fundamental of Data Sturcture"
def long_len():
    str_list=[]
    long_len=[]
    str_list=Str.split(" ")
    for i in str_list:
        long_len.append(len(i))
    long_len.sort(reverse=True)
    print("World is=",str_list[0])
    print(max(long_len))

def freq_char():
    c=input("Enter charater for finding its frequency in string")
    print("C=",c)
    g=Str.count(c)
    print(g)

def str_pali():
    Str=input("Enter charater for finding its frequency in string")
    M=Str[::-1]
    print(M)
    if Str==M:
        print("String is palindrome")
    else:
        print("tring is not palindrome")

def index_substr():
    print("Enter charater for finding its frequency in string")
    Str_sub=input()
    list_str=Str.split(" ")
    for i in range(len(list_str)):
        if Str_sub==list_str[i]:
            print(Str)
            print(i)
            break

def freq_word():
    list_str=Str.split(" ")
    print("*******Count of each word in string********")
    for i in range(len(list_str)):
        print(list_str[i],list_str.count(list_str[i]))

if __name__ == '__main__':
    print("******Take Input******")
    while(True):
        print("1. To display word with the longest length")
        print("2. To determine the frequency of occurrence ofprticular cha
        print("3. To check whether given string i palindrome or not")
        print("4. To display index of first appearance of the substring")
        print("5. To count the occurences of each word in a given string")
        print("Enter choice")
        choice = int(input())
        if (choice == 1):
            long_len()
        if (choice == 2):
            freq_char()
        if (choice == 3):
```

```
58              str_pali()
59          if (choice == 4):
60              index_substr()
61          if (choice == 5):
62              freq_word()
63          if (choice == 6):
64              break
```

In [3]:
```
import warnings
warnings.filterwarnings("ignore")
marks=[]
def stud_get():
    print("Enter no of student is SE class")
    N=int(input())
    global marks
    for i in range(N):
        print("Enter the marks(Write -1 for absent student)")
        M=int(input())
        marks.append(M)
        print(marks)

def avg_marks():
    sum=0
    cnt=0
    for i in range (len(marks)):
        if marks[i] is not -1:
            sum=sum+marks[i]
            cnt+=1
    print("Total Marks=",sum)
    print("\t")
    print("cnt=",cnt)
    print("Avg in float=",sum//cnt)
    print("Avg in integer",sum//cnt)

def high_low():
    temp=marks[0]
    for i in range(len(marks)):
        if temp<marks[i]:
            temp=marks[i]
    print("Highest Marks=",temp)
    temp=marks[0]
    for i in range(len(marks)):
        if marks[i] is not -1:
            if temp>marks[i]:
                temp=marks[i]
    print("Lowest Marks=",temp)

def count_abs():
    cnt=0;
    for i in range(len(marks)):
        if marks[i] is -1:
            cnt+=1
    print("No of absent students=",cnt)

def high_freq():
    freq=[]
    for i in range(len(marks)):
        if marks[i] is not -1:
            freq.append(marks.count(marks[i]))
    print(freq)
    k=max(freq)
    print("Highest frequency=",k)


if __name__== '__main__':
```

```
print("*********Take Input**********")
stud_get()
while(True):
    print("1. The average score of the class")
    print("2. Highest score and lowest score of the class")
    print("3. Count of students who were absent for test")
    print("4. Display marks  with highest frequency")
    print("Enter choice")
    choice=int(input())
    if(choice==1):
        avg_marks()
    if(choice==2):
        high_low()
    if(choice==3):
        count_abs()
    if(choice==4):
        high_freq()
    if(choice==5):
        break
```