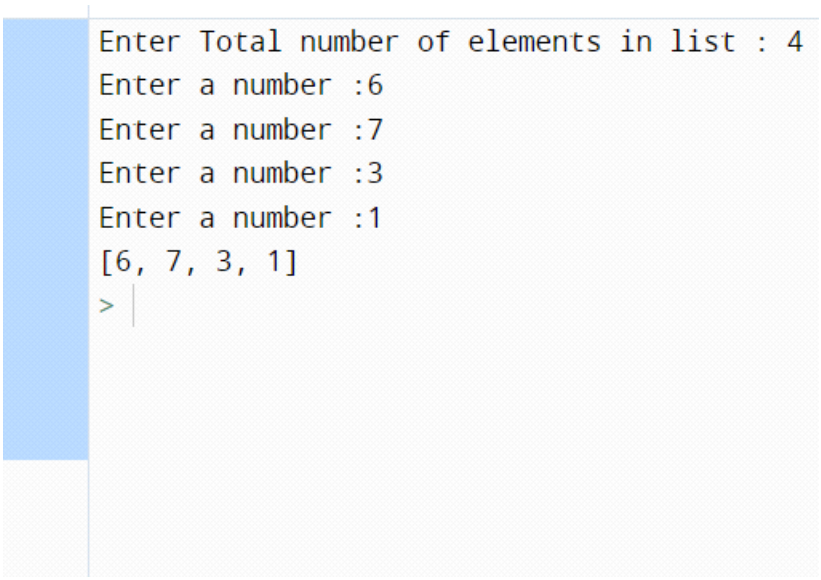
1

```
  N=int(input("Enter Total number of elements in list : "))
lists=[]
for i in range(N):
        value=int(input("Enter a number :"))
        lists.append(value)
test = [each for each in lists if each>0]
print(test)
"""for i in lists:
          if i>0:
               print(i)"""
```

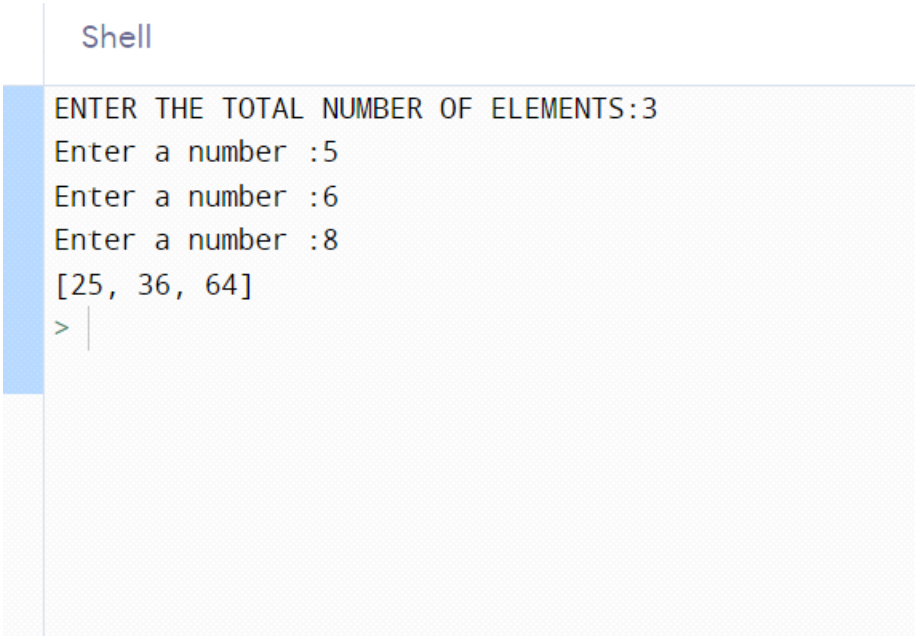
OUTPUT



2

```
N = int(input("ENTER THE TOTAL NUMBER OF ELEMENTS:"))
lists=[]
for i in range(N):
    value=int(input("Enter a number :"))
    lists.append(value)
    squared_numbers = [number ** 2 for number in lists]
print(squared_numbers)
```

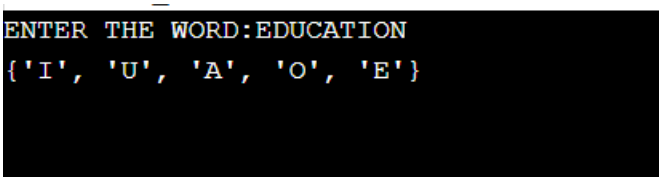
OUTPUT



3

```
a= input("ENTER THE WORD:")
vowels="AaEeIiOoUu"
ans=set(each for each in a if each in vowels)
print(ans)
```

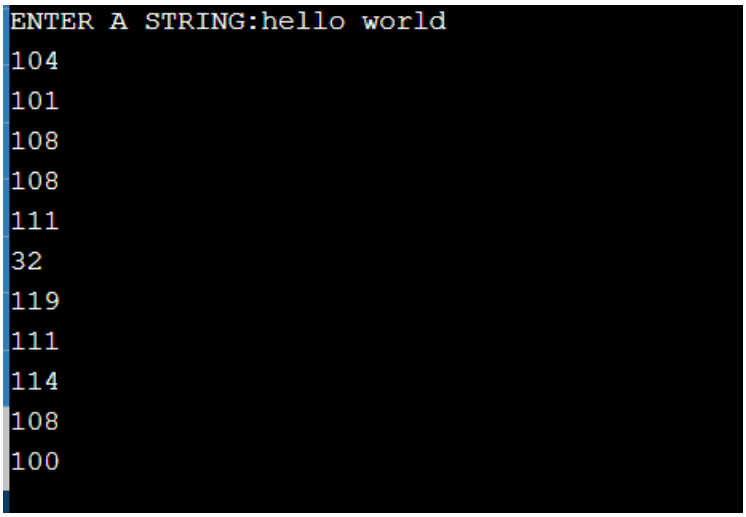
OUTPUT



4

```
a= input("ENTER A STRING:")
for element in a:
    print(ord(element))
```

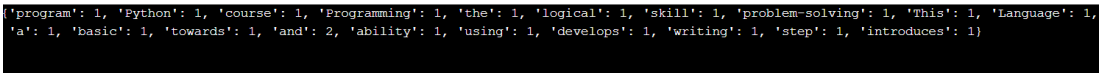
OUTPUT



5

```
def word_count(str):
    counts = dict()
    words = str.split()
    for word in words:
        if word in counts:
            counts[word] += 1
        else:
            counts[word] = 1
    return counts
print( word_count('This course introduces a basic step towards program writing and develops the logical ability and problem-solving skill using Python Programming Language'))
```

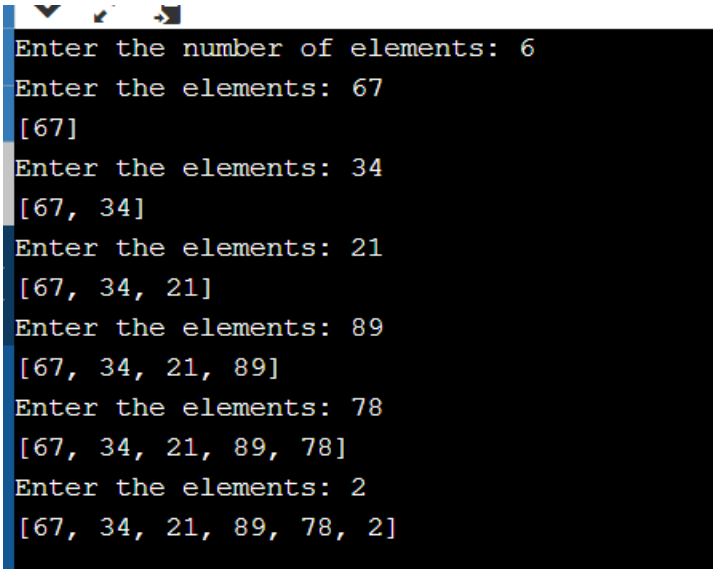
OUTPUT



6

```
lst=[]
n=int(input('Enter the number of elements: '))
for i in range(0,n):
    ele=int(input("Enter the elements: "))
    lst.append(ele)
    if(lst[i]>=100):
        lst[i]="Over"
        print (lst)
    elif(lst[i]<100):
        print (lst)
    else:
        print("Invalid value.")
```

OUTPUT



7

```
N=int(input("Number of names : "))
listed = []
count=0
for i in range(N):
    name = input("Enter name : ")
    listed.append(name)
for i in listed:
    for j in i:
        if(j=="a"):
            count=count+1;
print(count)
```

Shell

```
Number of names : 3
Enter name : gayathri
Enter name : parthik
Enter name : rithik
3
>
```

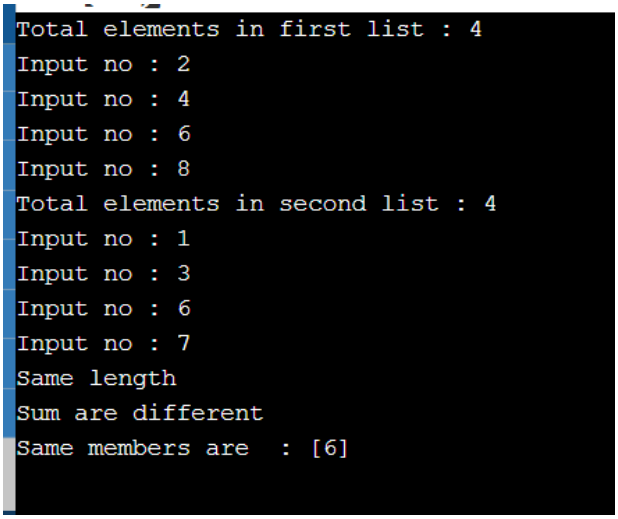
8

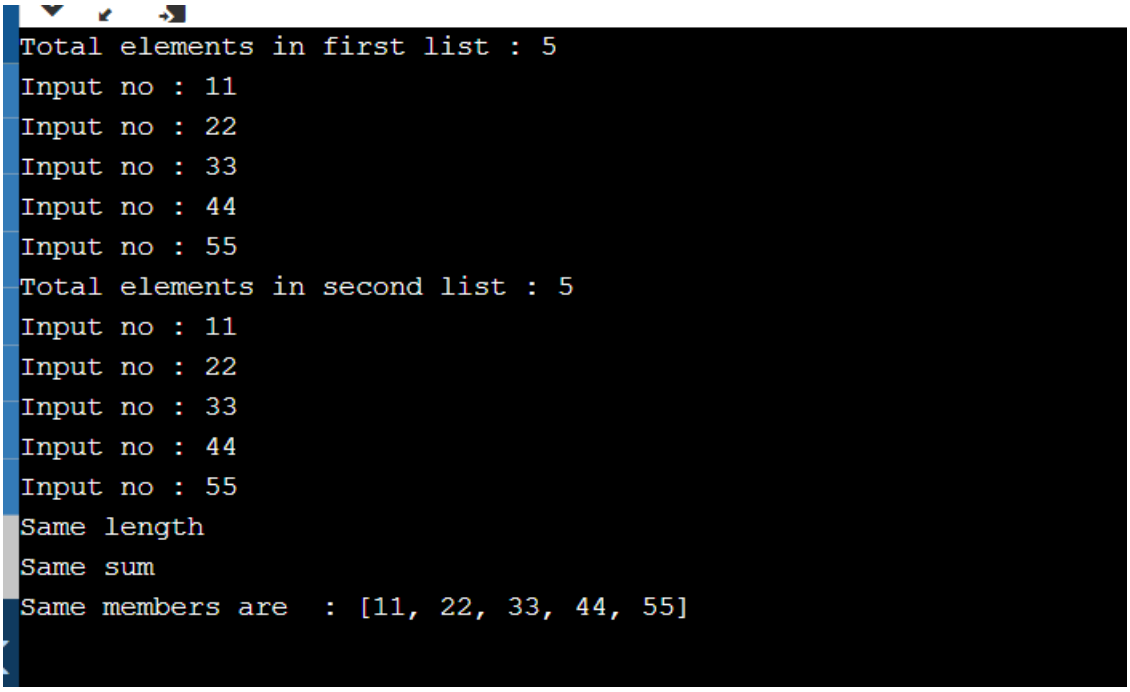
```
list1=[]
list2=[]
list3=[]
n1=int(input("Total elements in first list : "))
for i in range(n1):
    value=int(input("Input no : "))
    list1.append(value)
n2=int(input("Total elements in second list : "))
for i in range(n2):
    value=int(input("Input no : "))
    list2.append(value)
if(n1 == n2):
    print("Same length")
else:
    print("Not same length ")
```

```
if(sum(list1)==sum(list2)):
        print("Same sum ")
else:
        print("Sum are different")

list3=[each for each in list1 if each in list2]
print("Same members are     :",list3)
```

OUTPUT

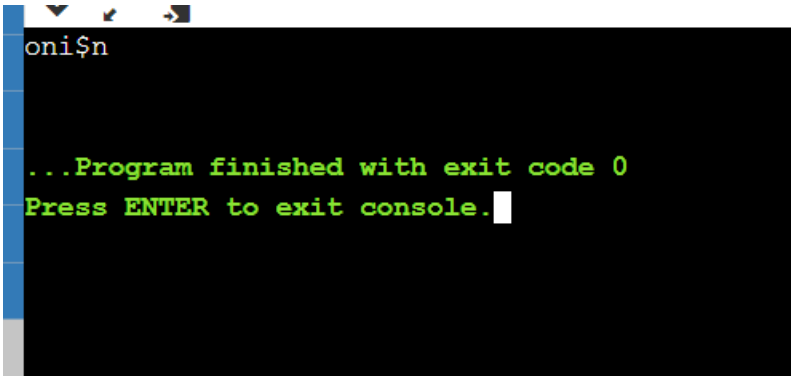




9

```
def change_char(str1):
    char = str1[0]
    str1 = str1.replace(char, '$')
    str1 = char + str1[1:]
    return str1
print(change_char('onion'))
```

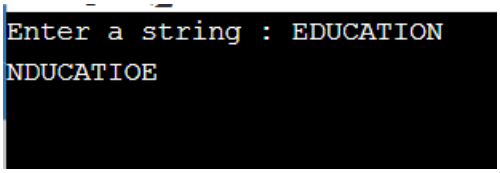
OUTPUT



10

```
str = input("Enter a string : ")
new_str = str[-1:] + str[1:-1] + str[:1]
print(new_str)
```

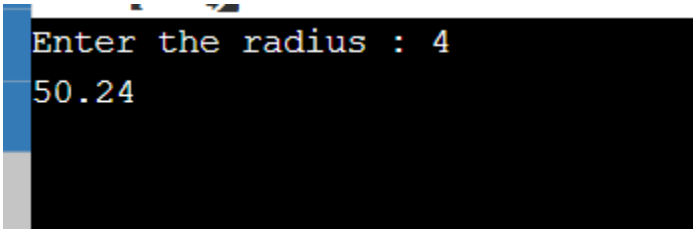
OUTPUT



11

```
r = int(input("Enter the radius : "))
a = 3.14*r*r
print(a)
```

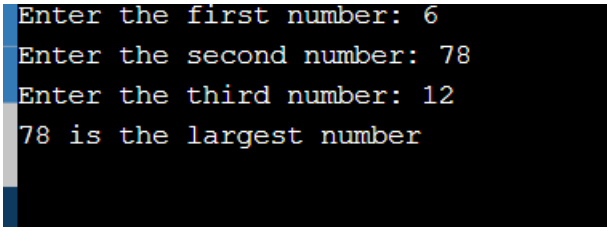
OUTPUT



12

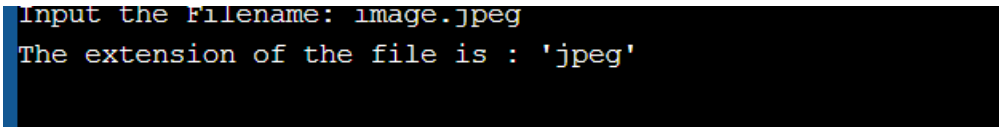
```
a=int(input("Enter the first number: "))
b=int(input("Enter the second number: "))
c=int(input("Enter the third number: "))
if a>b and a>c:
    print(a,"is the largest number")
elif b>c:
    print(b,"is the largest number")
else:
    print(c,"is the largest number")
```

OUTPUT



13

```
filename = input("Input the Filename: ")
f_extns = filename.split(".")
print ("The extension of the file is : " + repr(f_extns[-1]))
```



14

```
print ("Print leap year between two given years")
print ("Enter start year")
startYear = int(input())
print ("Enter last year")
endYear = int(input())
print ("List of leap years:")
for year in range(startYear, endYear):
    if (year%4 == 0) and (year%100!= 0) or (year%400==0):
```

print (year)

```
Print leap year between two given years
Enter start year
2000
Enter last year
2021
List of leap years:
2000
2004
2008
2012
2016
2020
```

15

```
n=int(input("Enter an integer: "))
a=n+n*n+n*n*n
print(a)
```

```
Enter an integer: 4
84


...Program finished with exit co
```

16

```
color_list_1 =set(["White","Black","Red"])

color_list_2 =set(["Red","Green"])

print(color_list_1.difference(color_list_2))
```

```
Shell

{'White', 'Black'}
```

17

defchars_mix_up(a, b):

new_a = b[:1] + a[1:]

new_b = a[:1] + b[1:]

returnnew_a + ' ' + new_b

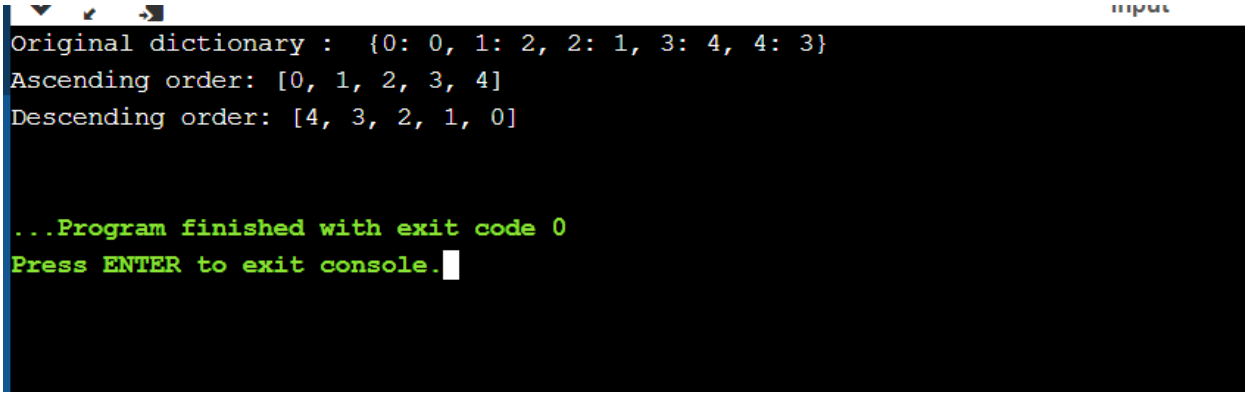
print(chars_mix_up('abc', 'xyz'))

OUTPUT

```
xbc ayz
>
```

18

```
d = {1: 2, 3: 4, 4: 3, 2: 1, 0: 0}
print('Original dictionary : ',d)
x = sorted(d)
print("Ascending order:",x)
x=sorted(d,reverse=True)
print("Descending order:",x)
```



19

```
dict1 = {    'Ritika': 5, 'Sam': 7, 'John' : 10 }
dict2 = {'Aadi': 8,'Sam': 20,'Mark' : 11 }
```

```
dict3 = {**dict1 , **dict2}
print('Merged dictionary :')
print(dict3)
```

OUTPUT

```
Merged dictionary :
{'Ritika': 5, 'Sam': 20, 'John': 10, 'Aadi': 8, 'Mark': 11}
>
```

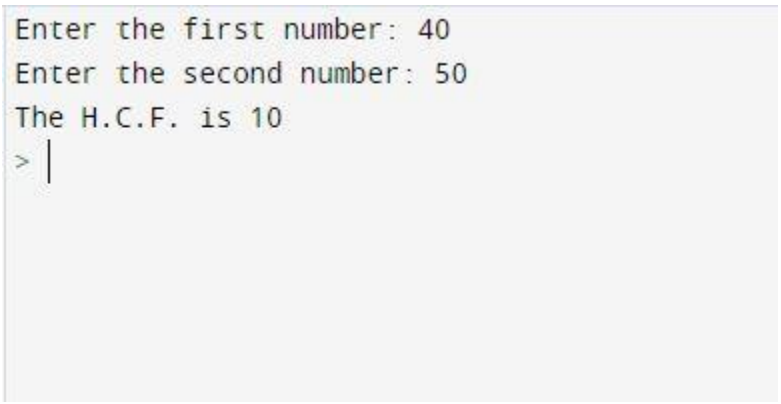
20

```
defcompute_hcf(x, y):
if x > y:
smaller = y
else:
smaller = x
fori in range(1, smaller+1):
if((x % i == 0) and (y % i == 0)):
hcf = i
```

returnhcf

```
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
print("The H.C.F. is", compute_hcf(num1, num2))
```

OUTPUT



21

```
list = [11, 22, 33, 44, 55,56]
print ("Original list:")
print (list)
fori    in list:
        if(i%2 == 0):
        list.remove(i)
print ("List after removing EVEN numbers:")
print (list)
```

OUTPUT

```
Original list:
[11, 22, 33, 44, 55, 56]
List after removing EVEN numbers:
[11, 33, 55]
>
```