1. Write

a Python program that accepts a hyphen-separated sequence of words as input and prints the words in a hyphen-separated sequence after sorting them alphabetically.

Sample

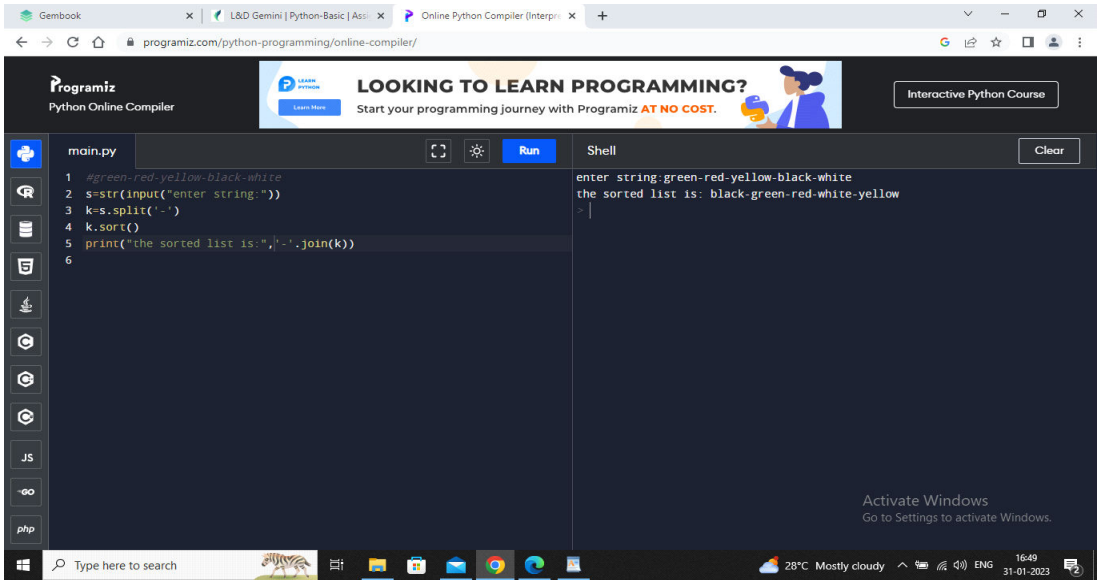
Items: green-red-yellow-black-white

expected

Result: black-green-red-white-yellow

code:

```
s=str(input("enter string:"))

k=s.split('-')

k.sort()

print("the sorted list is:",'-'.join(k))
```

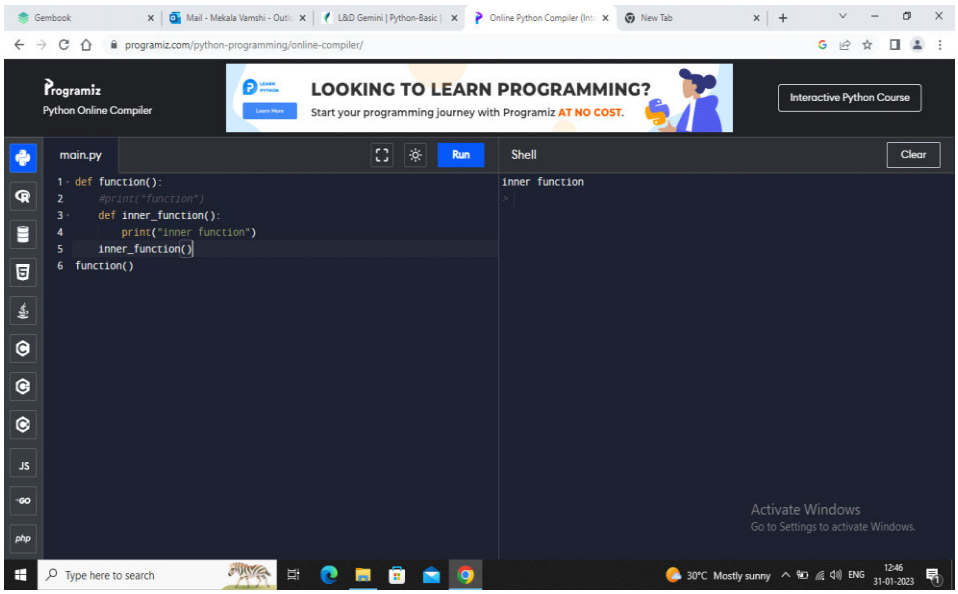


2.Python program to access a function inside a function.

code:

```
def function():
    #print("function")
    def inner_function():
```

```
        print("inner function")
    inner_function()
function()
```



3.Python program to reverse a string

Sample

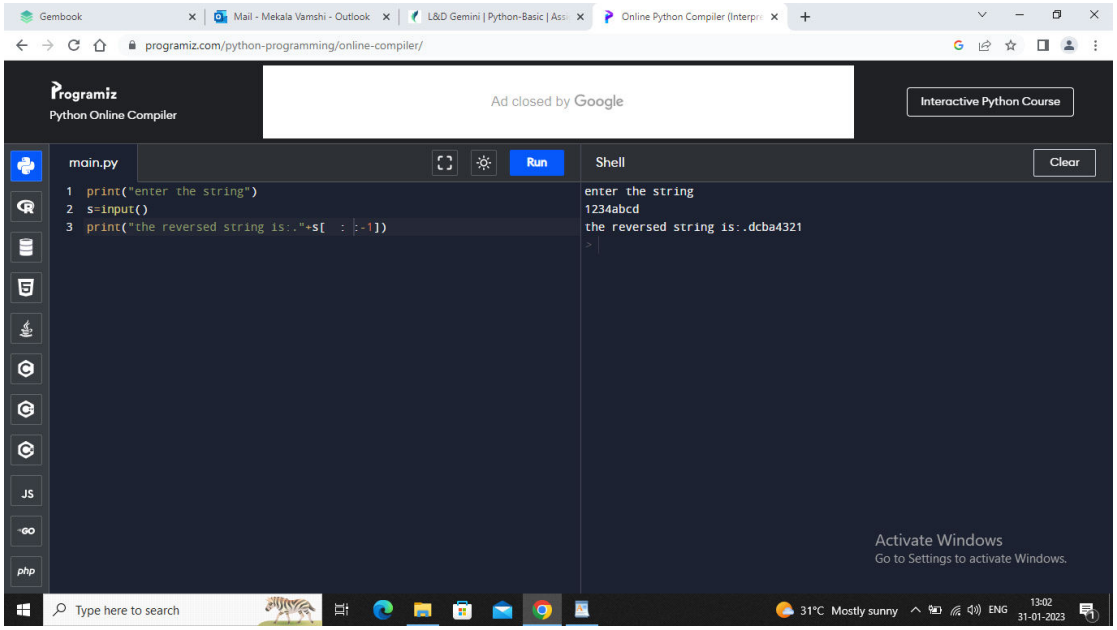
String: "1234abcd"

Expected

Output: "dcba4321"

code:

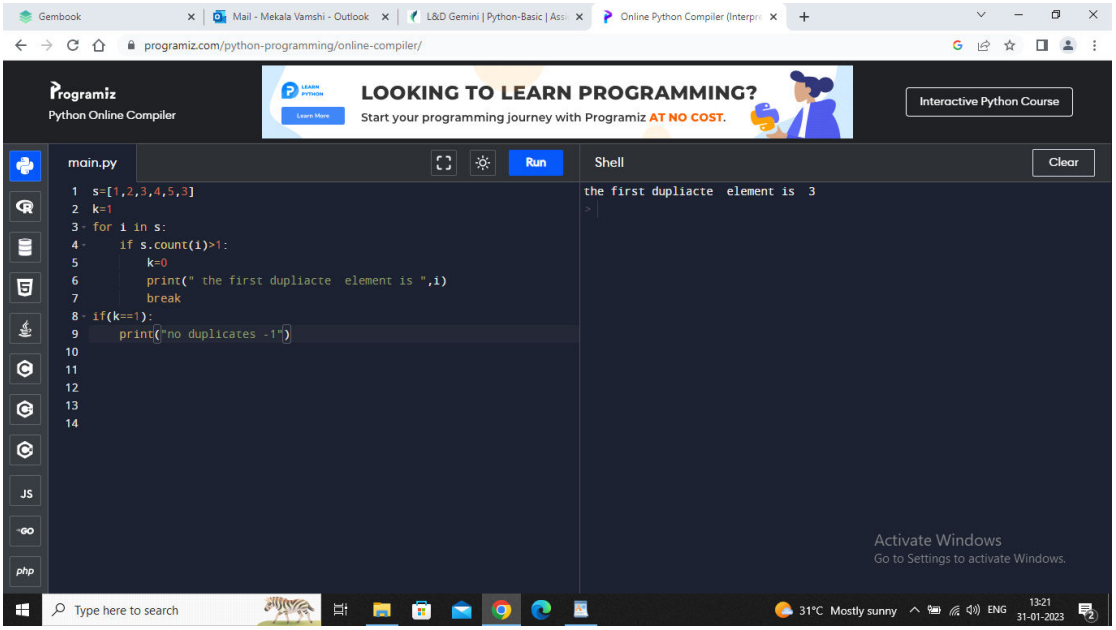
```
print("enter the string")
s=input()
print("the reversed string is:."+s[    : :-1])
```



4.Write a Python program to find the first duplicate element in a given array of integers.Return -1 If there are no such elements.

code:

```
s=[1,2,3,4,5,3]

k=1

for i in s:

    if s.count(i)>1:

        k=0

        print(" the first dupliacte    element is ",i)

        break

if(k==1):

    print("no duplicates -1")
```



5.Write

a Python program to get the number of occurrences of a specified element in an

array.

s=[1,2,3,4,5,3,2,3,4,1,4,5,7,8,4,3]

k=1

k=[]

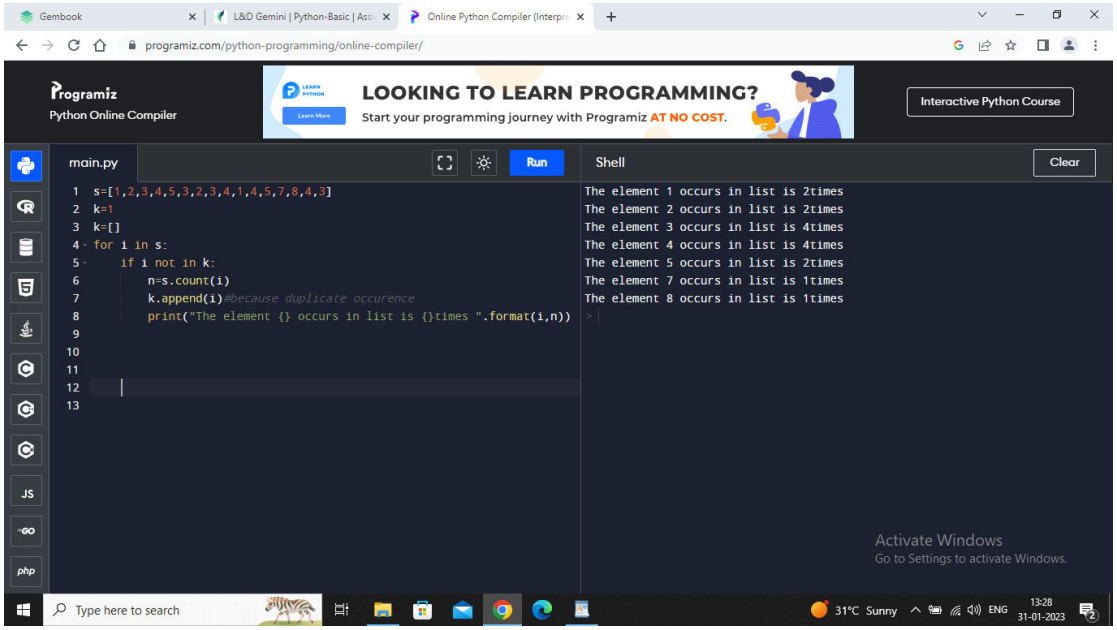
for i in s:

    if i not in k:

        n=s.count(i)

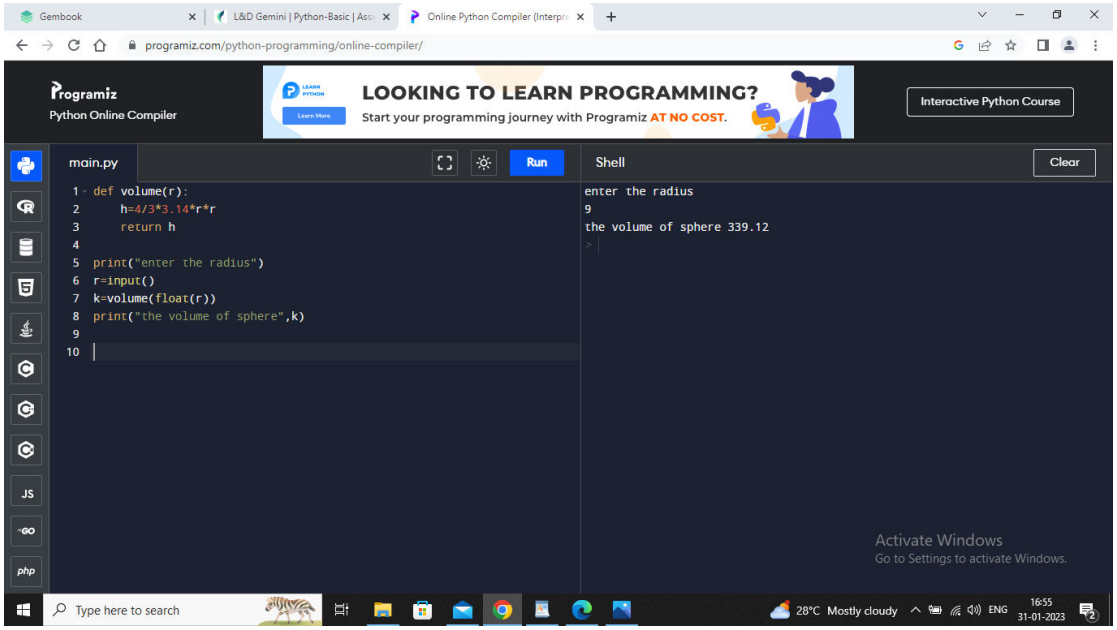
        k.append(i)#because duplicate occurence

        print("The element {} occurs in list is {}times ".format(i,n))



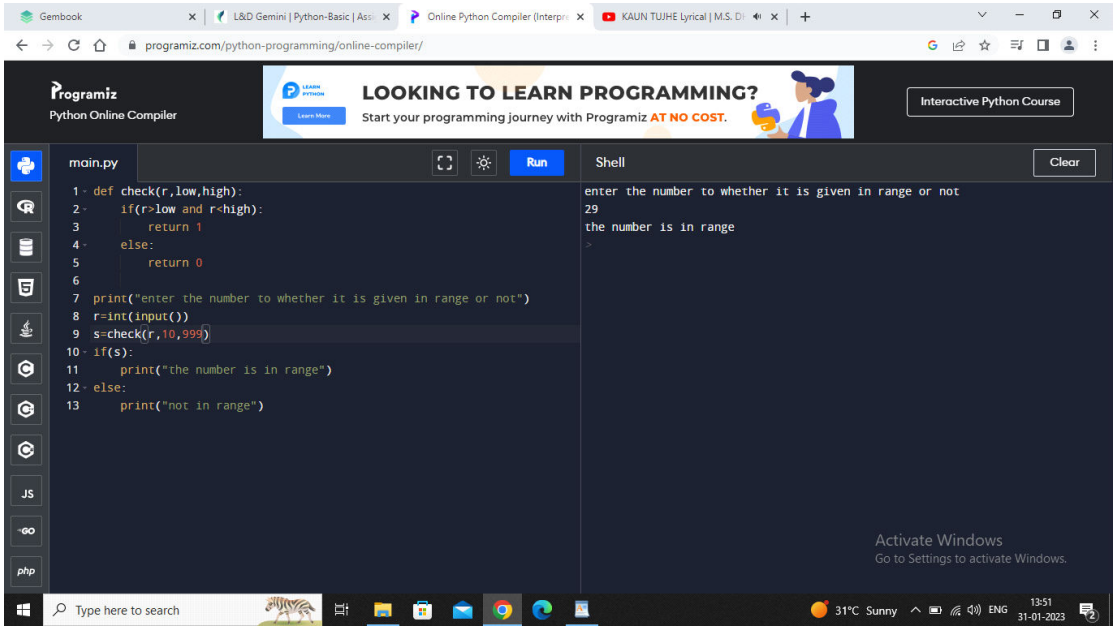
6.Writea Python program to get the number of occurrences of a specified element in array.

```
def volume(r):
    h=4/3*3.14*r*r
    return h

print("enter the radius")
r=input()
k=volume(float(r))
print("the volume of sphere",k)
```



7.Write a function that checks whether a number is in a given range (Inclusive of high and low)

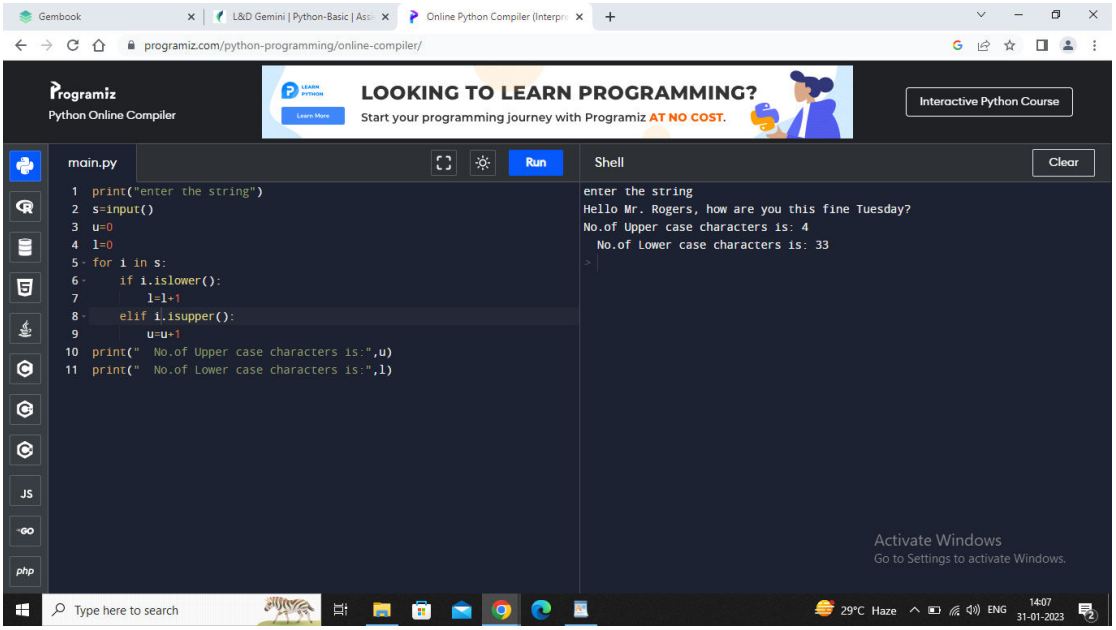
```
def check(r,low,high):
    if(r>low and r<high):
        return 1
    else:
        return 0
```



```
print("enter the number to whether it is given in range or not")
r=int(input())
s=check(r,10,999)
if(s):
    print("the number is in range")
else:
    print("not in range")
```

8. Write a Python function that accepts a string and calculate the number of upper case letters and lower case letters.

```
print("enter the string")
s=input()
u=0
l=0
for i in s:
    if i.islower():
        l=l+1
    elif i.isupper():
        u=u+1
print("    No.of Upper case characters is:",u)
print("    No.of Lower case characters is:",l)
```



9.Write a Python function that takes a list and returns a new list with unique elements of the first list.

SampleList

k =[1,1,1,1,2,2,3,3,3,3,4,5]

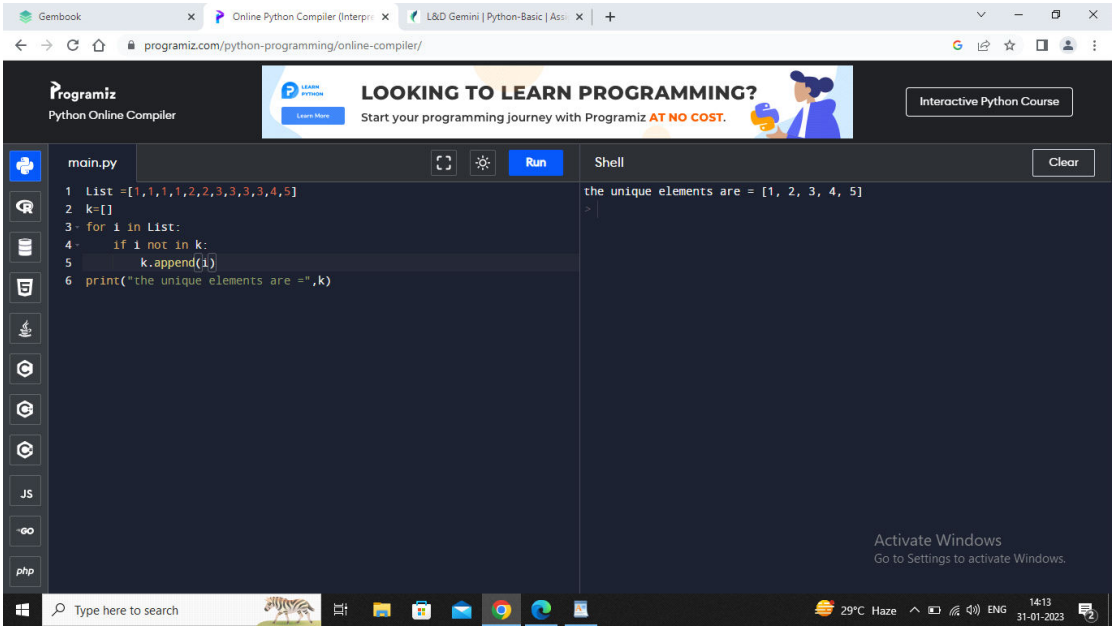
k=[]

for i in List:

    if i not in k:

        k.append(i)

print("the unique elements are =",k)



10. Write a Python function to multiply all the numbers in a list.

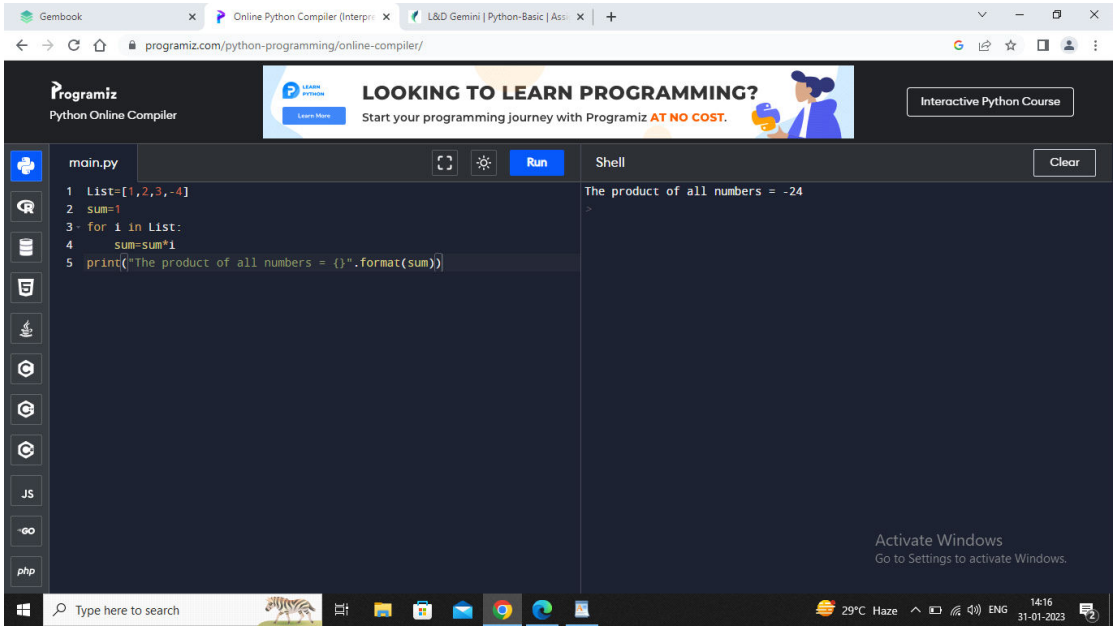
List=[1,2,3,-4]

sum=1

for i in List:

    sum=sum*i

print("The product of all numbers = {}".format(sum))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main.py
Run
Shell
Clear
1 List=[1,2,3,-4]
2 sum=1
3 for i in List:
4 sum=sum*i
5 print("The product of all numbers = {}".format(sum))
The product of all numbers = -24
>
Activate Windows
Go to Settings to activate Windows.
Type here to search
29°C Haze
ENG
14:16
31-01-2023