

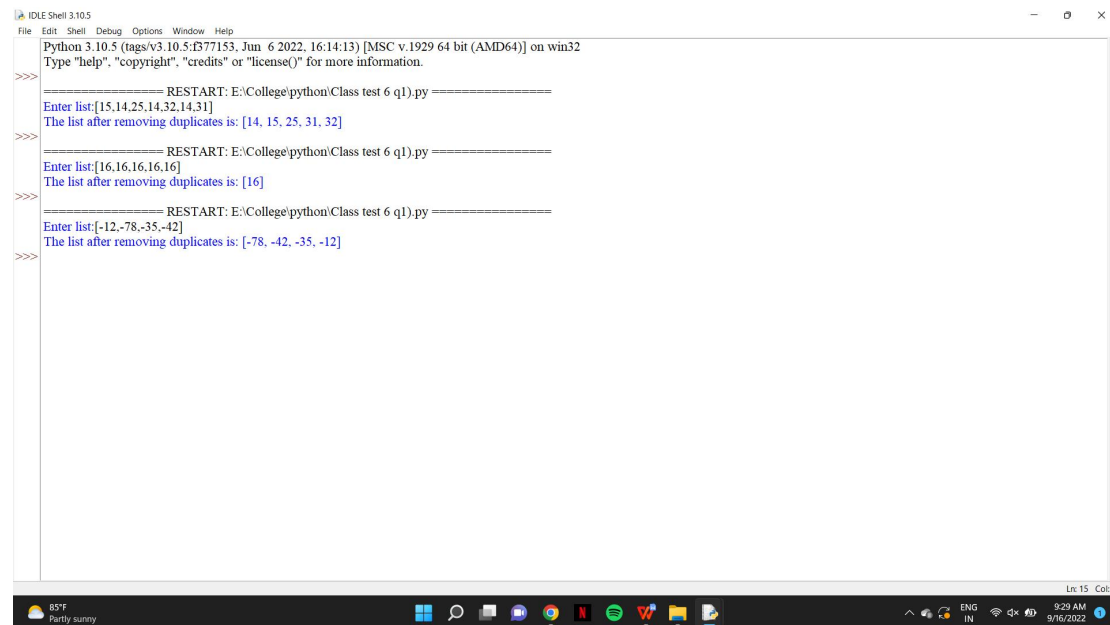
CLASS TEST-6

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Subject code: CSA0836
Subject name: Python programming
Date: 16/09/2022

1) Removing duplicate number

```
def func(a):  
    b=[]  
    for i in a:  
        if i not in b:  
            b.append(i)  
    b.sort()  
    return b  
a=eval(input("Enter list:"))  
print("The list after removing duplicates is:",func(a))
```

OUTPUT:



```
Python 3.10.5 (tags/v3.10.5:f377153, Jun 6 2022, 16:14:13) [MSC v.1929 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:\College\python\Class test 6 q1).py =====  
Enter list:[15,14,25,14,32,14,31]  
The list after removing duplicates is: [14, 15, 25, 31, 32]  
>>>  
===== RESTART: E:\College\python\Class test 6 q1).py =====  
Enter list:[16,16,16,16,16]  
The list after removing duplicates is: [16]  
>>>  
===== RESTART: E:\College\python\Class test 6 q1).py =====  
Enter list:[-12,-78,-35,-42]  
The list after removing duplicates is: [-78, -42, -35, -12]  
>>>
```

2) Total number of factors of a number

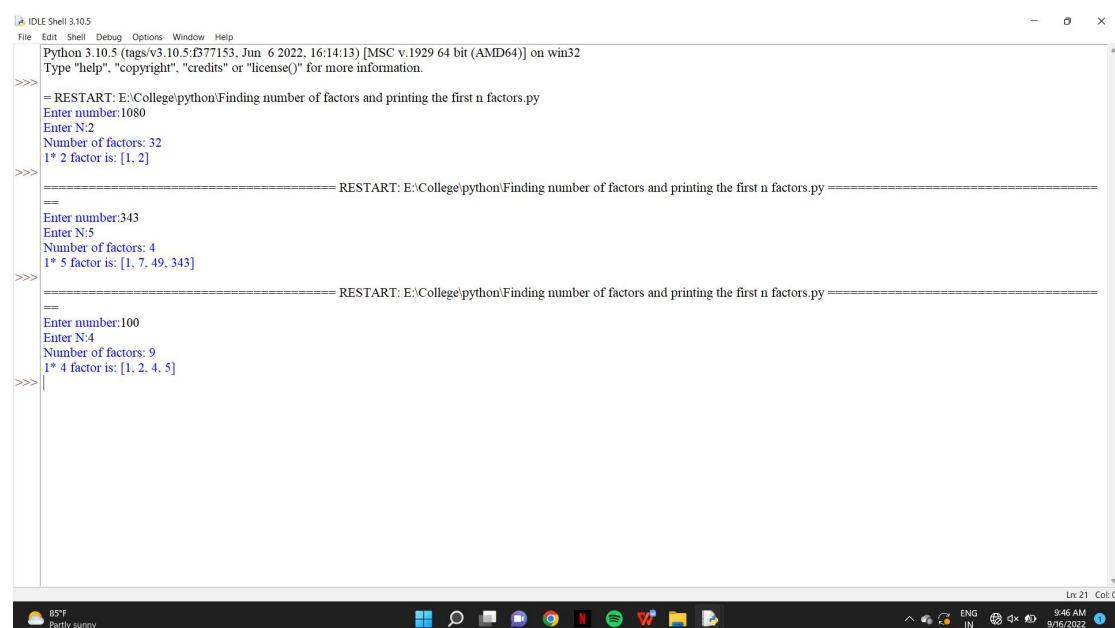
```
def factor(n,o):  
    i=1  
    count=0  
    a=[]
```

```

while(i<=n):
    if (n%i==0):
        count+=1
        a.append(i)
    i+=1
print("Number of factors:",count)
print("1*",o,"factor is:",a[0:o])
a=int(input("Enter number:"))
o=int(input("Enter N:"))
factor(a,o)

```

OUTPUT:



```

Python 3.10.5 (tags/v3.10.5:f377153, Jun 6 2022, 16:14:13) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
-- RESTART: E:\College\python\Finding number of factors and printing the first n factors.py --
Enter number:1080
Enter N:2
Number of factors: 32
1* 2 factor is: [1, 2]
>>>
===== RESTART: E:\College\python\Finding number of factors and printing the first n factors.py =====
Enter number:343
Enter N:5
Number of factors: 4
1* 5 factor is: [1, 7, 49, 343]
>>>
===== RESTART: E:\College\python\Finding number of factors and printing the first n factors.py =====
Enter number:100
Enter N:4
Number of factors: 9
1* 4 factor is: [1, 2, 4, 5]
>>>

```