

## CLASS TEST-3

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Subject code: CSA0836  
Subject name: Python programming  
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### 1) Merging two sorted list

Program:

```
m=[]
l=[]
k=[]
n1=int(input("Enter number of elements in first list:"))
for i in range(n1):
    a=int(input())
    m.append(a)
n2=int(input("Enter number of elements in second list:"))
for j in range(n2):
    b=int(input())
    l.append(b)
k=l+m
k.sort()
print("The merged list required is:",k)
```

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\Q1) merged two sorted list (class test3).py =====
>>> Enter number of elements in first list:4
8
9
10
20
>>> Enter number of elements in second list:4
12
15
25
30
>>> The merged list required is: [8, 9, 10, 12, 15, 20, 25, 30]
>>>
```

2) Print parenthesis program to display.

Program:

```
n=int(input("Enter limit:"))
for i in range(n):
    print("()",end=" ")
```

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.

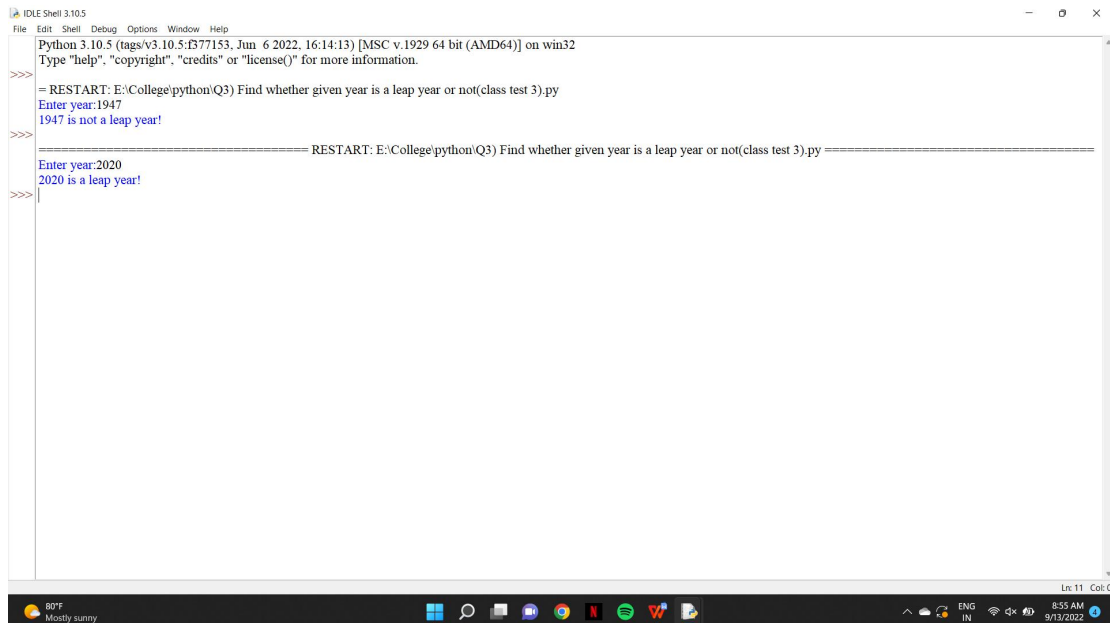
>>> ===== RESTART: E:\College\python\q2) print paranthesis (class test 3).py =====
>>> Enter limit:5
()()()()
>>>
```

### 3) Checking whether the given year is leap year or not.

#### Program:

```
y=int(input("Enter year:"))
if y%400==0:
    print(y,"is a leap year!")
elif (y%4==0) and (y%100!=0):
    print(y,"is a leap year!")
else:
    print(y,"is not a leap year!")
```

#### 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\Q3) Find whether given year is a leap year or not(class test 3).py
Enter year:1947
1947 is not a leap year!
>>>
===== RESTART: E:\College\python\Q3) Find whether given year is a leap year or not(class test 3).py =====
Enter year:2020
2020 is a leap year!
>>>
```