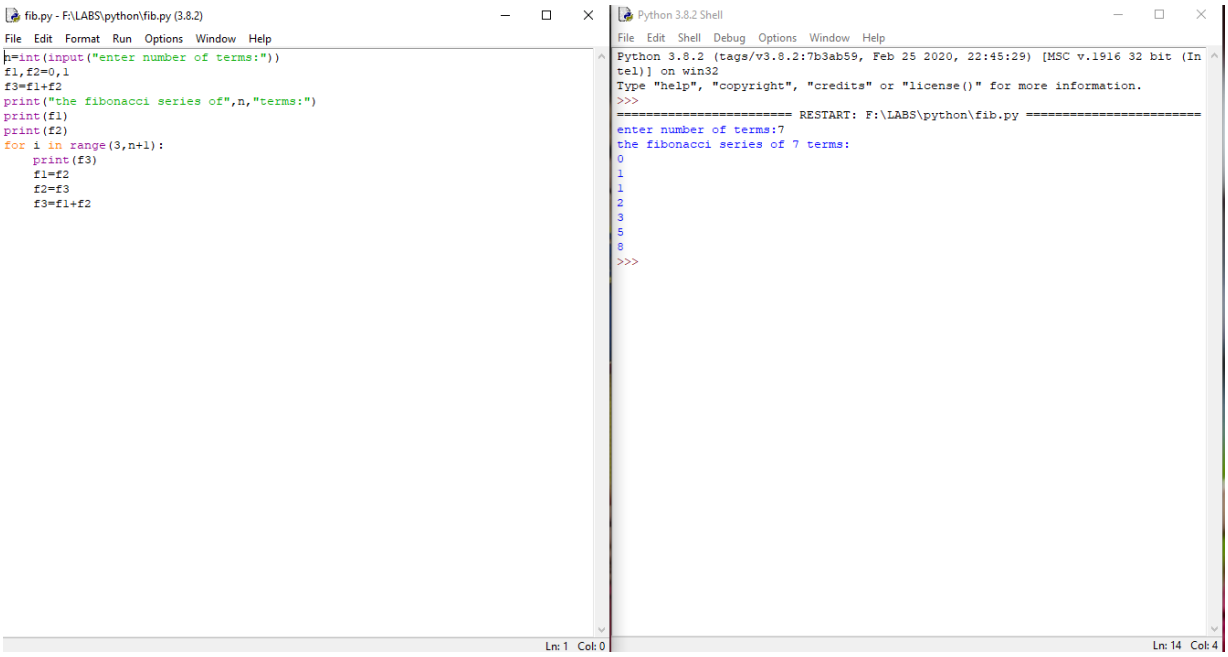
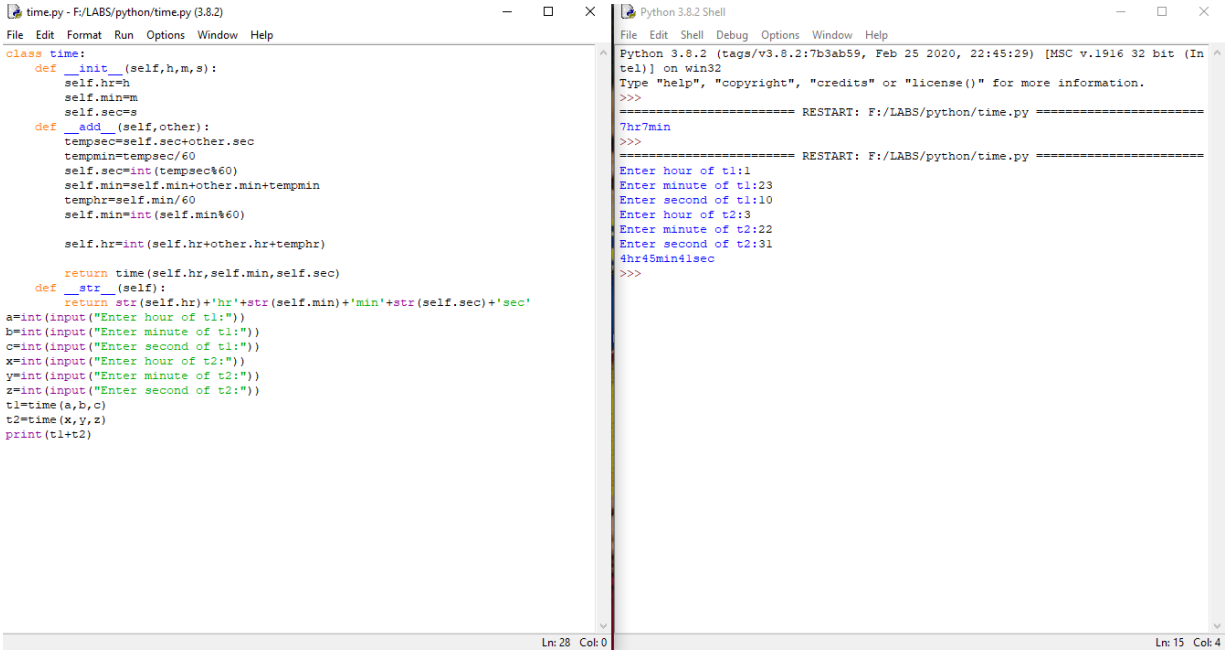
20MCA131

Programming Lab

1.Generate Fibonacci series of n terms.



2.Create a class time with private attributes hour,minute and second.Use ‘+’ overload operator to find sum of 2 time.



time.py - F:/LABS/python/time.py (3.8.2)

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```
class time:
    def __init__(self,h,m,s):
        self.hr=h
        self.min=m
        self.sec=s
    def __add__(self,other):
        tempsec=self.sec+other.sec
        tempmin=tempsec/60
        self.sec=int(tempsec%60)
        self.min=self.min+other.min+tempmin
        temphr=self.min/60
        self.min=int(self.min%60)

        self.hr=int(self.hr+other.hr+temphr)

        return time(self.hr,self.min,self.sec)
    def __str__(self):
        return str(self.hr)+'hr'+str(self.min)+'min'+str(self.sec)+'sec'
a=int(input("Enter hour of t1:"))
b=int(input("Enter minute of t1:"))
c=int(input("Enter second of t1:"))
x=int(input("Enter hour of t2:"))
y=int(input("Enter minute of t2:"))
z=int(input("Enter second of t2:"))
t1=time(a,b,c)
t2=time(x,y,z)
print(t1+t2)
```

Ln: 28 Col: 0

Python 3.8.2 Shell

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```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: F:/LABS/python/time.py ==========
7hr7min
>>>
========== RESTART: F:/LABS/python/time.py ==========
Enter hour of t1:1
Enter minute of t1:23
Enter second of t1:10
Enter hour of t2:3
Enter minute of t2:22
Enter second of t2:31
4hr45min41sec
>>>
```

Ln: 15 Col: 4