Reg no: ICE20MCA-2031

FIRST SEMESTER MCA (2020 SCHEME) Date: 2 July 2021

PRATICAL EXAMINATION JUNE-JULY Time: 1:00 to 4:30.

2021

20 MCA 131 PROGRAMMING LAB.

1. write a programme to generate fibonacci series of n terms

Algorithm

step 1: start

step 2: Enter the limit.

step 3: Intialize the values.

step 4: Read the values.

step 5: End.

Program

```
n = int(input("Enter the limit: \n"))
a = 0 # first number.
b = 1 # second number.
if n == 1:
    print(a)
for i in range(2,n):
else:
    print(b)
for i in range(2,n):
    c = a+b
    a = b
    b = c
print(c)
```

Output.

~~fibonacci seq~~

items ? 7

fibonacci Sequence:

0
1
1
2
3
5
8

2. write a program to create a class time with private attributes hour, minutes, and secs. overload + operator to find sum of 2 time.

Algorithm

step 1: start

step 2: declare the variables.

step 3: Put the values

step 4: Read if

step 5: end.

Program

```
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).
```

Output.

Enter hour of t1:
60
Enter minute of t1:
30
enter second of t1:
27
Enter hour of t2:
2
Enter minute of t2:
50
Enter second of t2:
32
63hr 20min 59sec.