(1)

SET B

2

3

5

PRACTICAL EXAMINATION JUNE - JULY 2021 20MCA131 PROGRAMMING LAB

AEG NO: ICE ZOMCA 2029 OATE : 02 JULY 2021 TIME : 1:00 - 4:00

```
1. Generate Fibonacci series of Nterms.
 ALGORITHM:
 step1: start.
 step 2: Declare variables fi ef2 and and initialise o and I respectively.
 thep 1. Declare variable 13=fi+12.
 steph: print fi efz.
 step (: ilead the range and above in n. neclare i=3.
 step 6: Rea Repeat step 7 to step 12 untill i = n.
 step7: print f3.
 ( teps: fi=f2.
 (tep 9 : Az = F3.
 Step 10: 13= f1+f2.
 step 11: 11=1.
 step 12: stop.
PROGRAM:
  n= in+ (input (" Enter the number of terms needed"))
  f. f2 = 011
 f3=f1+12.
  printf(" Fibonacti sevies of first", n, "terms is: ").
  print (Fi)
 print (fi)
(Box in in range (3, n+1)
 Trint (fs)
 f1=f2
 f 2=fz
 f3=f1+f2
DUTPUT :
                                       tested:
 expected:
                                       Enter the number of terms: 7
Enter the number of terms: 6
                                       fibonacci sever of 7 terms:
fibonacci revier of 6 terms: .
 0
```

2

3

2. Create a class Time with private attribute hour, minute and second. Overload 1+1 operator to find rum of 2 time.

ALGORITHM:

step1: Start

step2: Declare a class time.

steps: Define a njetod constituetor with attributes him and s:

initialize self. hr=h self . winz m,

Self. se C= 5.

step4: Office a method add with attribute other:

active variable temples = selfisect other ses

rectare variable temporins temprec/60.

Andrewe self. sec = integer of (tempsec 9660).

czep 5: self min = self. min+other. min+tempunin.

tempho = self. min/60.

self.min = integer of C selfmin %60).

self. hr = integer of Crelf. ht other. hr + temphr)

step 6: return time (self. hr + other. hv + temphr)

step 7: neturn structself. (nv)+ thrit string of (relf.min) + min'+ string (splite) + ted

· Main : step 1: start

step 2: Pectare harrables a, b, c, x, y, z.

steps: Theord values of hour of to into a a interer

neph: Read value of minute of to into b. at integer.

steps: Thead value of record of to into car integer.

stept: head value of hour of to into x as integer.

step 7: Theod value of minute of to into y as integer.

step 8: rhead value of second of the into z as integer.

time with attributer a,b, c into it which step9: call actors

returned to variable t1.

time with attributer 2,4,2 into it which step 10: Call walking

returned to variable t2.

step 11: print values tittz.

step 12: stop.

```
PROGRAM:
class time:
      def init (seif, h, m, s):
          9015. hr=h
           self. minem
           self. sec=5
      def edd.(self, other):
           tempsec = self. sect other sec
            temp min = tempsec/60
            self. sec = in+Ctempse co/60)
            self, min: self, min + other, min + temporaly
           temptr = self. min/60.
           selfimin = int (relf. mino 600)
            self. hr = int (self. hr + other. hr + temphr)
            return time (self. ho, self. min, self. sec)
      def -str-(self):
            return str (self. hr)+ 'hr'+str (self.min) + 'min' + str(self.sec) + 'sec'
a=int compute conter hour of (1:1))
b=int Cinput ("Entor minute of ti: "))
 e=int Cinput ( "finter second of ti:"))
 e = int (input ("Enter hour of t2:"))
 y=infcinput ("Enter minute of t2:11))
 e=in+Cinput ("Enter second of t2:"))
 tia time (a, b, c)
 t1= time (x,y,z)
  print(t1+t2)
CUTPUT :
Expected:
Enter hour of ti: 1.
Enter brimute of t1:23
Enter second of ti:10
 Enter hour of t2:3
 Enter minute of t2:22
 Goter second of t2:31
 4hr 45min 41sec.
Terted:
         how of tiz
 ENTEY
 Enter minute of £1:30
 Enter second of 61:30
 Enter hour of tz:3
  Enter minute of t2:30
  enter second of £2:30
```

6hr Imin Osec