SIKSHA 'O' ANUSANDHAN

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Session:

Laboratory Record Programming in Python (CSE 3142)

Submitted	by
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Minor Assignment -7

rutable and Immutable objects

- ter and sections another list without any duplicates.

Porogram ?-

def duft (11):

La=[]

for min el:

: El m son m je

ed. append (m)

El menter

def main ():

L1 = [7,6,5,8,7,8,9,6]

fount (dupl (11))

il_name_= (_main__);

mam ()

outped : -

[7,6,5,8,9]

the user and personces the corresponding cumulature list - where each element in the list at index i is the sum of elements at index i <= i.

Porogram :-

def rock (m1):

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W5=[] sum = 0 fore i in m1: sum += i m2. append (sum) return m2 a3) wente a forogram enal takes a sentence as input from the user and computes the frequency of each letter. Use a variable of dictionary type to maintain the count. Porogram :def Imq(s): Z = 23 for min sentence: ib min Z: z [1]+=1 else : z [e] =1

z meeter

CAPARARIAN SILISI

def main ():

S = inful ("Entire the disord outfild sentence: ")

found (z(s))

L _ name _ = = '_-main --';

,_name__ == `__mam -- .
main()

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```
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an) Boartify the outfut freduced when the following functions
    are invoked
   1. def func ():
          L1 = lust()
          La = Litc)
           forsin range (0,5):
                el. append (1)
                12. append (1+3)
            frint (ls)
            (se) truet
  -: buffus :-
   [0,1,2,3,4]
   [3,4,5,6,7]
   2. def func():
         14 = list ()
         (عالمعلا = ها
         100 i in stange (015):
                l1. afferd (°)
                 12. append ( 8+3)
                 11,12= 12,11
          found (11)
```

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fount (ld) Output: - [3, 1, 5, 3, 7] [0,4,2,6,4]

Name: Baswat Johnney

```
3.5) Determine the output of the following code snippets:
   1. C= [1,0,3,4,5,6,7,8,9,10]
       result = 0
       for I in sange (0,50):
           il (c[i]% 2==0);
                result += c [i]
        brint (result)
 output :-
  30
 2. c = [1,2,3,4,5,6,7,8,9,10]
    result = 0
     for i in stange (0,10);
         il (cti7% 21=0):
            regelt to c[i]
    frunt ( occult)
  outpul : -
  25
  3. subject = computer
      subject = list (subject)
      on = subject [9]
      for i'm range (0, len (subject)-l):
           subject [i] = subject [i+1]
      subject [ len Coulyect ) - I] - ch
      found (' '. join (subject))
· outper :- omfuter C
                                      Regd. Number: 1941012407
     Name: Sasurat Mahanty
                                61
```

CHAPPING THE BUNDANS

```
4. quantity = [15, 30, 12, 34, 56, 99]
     total = 0
     ; ( (vibraup) ned , o) sprave in i suf
          if (quantity (1) > 15);
                total + = quantity [1]
     fount (total)
  output : -
  219
 5. x = [1,2,4,6,9,10,14,15,17]
     for im scange (0, lin(x));
          il (x[i]%, 2==0);
                x[i] = 4 * 9
           ely (x[[]% 3==0);
               20 [1] = 9 * (
           else !
               x[8] == 3
      fount (x)
  output: -
   Ca, 4, 8, 12, 36, 20, 24, 63, 347
a6) went a function that takes n as an inful and eventes a
   lest of n issels such that ith list contains first fine
   multiples of i.
  det fun (n);
      return [ t got i for i im reange [ 106] for i in range (1, n+1)
```

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2

6

4

2

6

0

E

(97) wente a function that lakes a number as an inful parameter and seturns the coverespond took in words. for example, on inful 453, the function should seturn 'Four time two'. Use a dictionary for napping digits to their supresentation.

def fun(t);

SULLING WALLENGER STANDERS

t = 20: 'zero', 1: 'one', a: 'Iwo', 3: 'Ihree', 4: 'Jour', 5: 'Jun', 6: 'six', 7: 'seven', 8: 'Eight', 9: 'Nin'?

l = [t Cint (digit)] for digit in d]
oectorn ". join (e)

(40), whether the statements will execute successfully.

24, so, given what will be the output of execution?

Also give the output of fruit statements Current applicable):

oddius = 'B-6, todhi scoad, selhi'
list 1 = [1,2,3]

list 2 = ['a', 1, '=', 26, 'd', 4]

duple 1= C'a', 'e', 'l', 'o', 'u')

tufle2 = ([3,4,6,8], [3,6,9], [4,8],5)

dict = E'apple': 'eved', 'mange': 'yellow', 'orange': 'orange'

dict = E'x': ['eng', 'hundi', 'maths', 'science'], 'xII': ['eng
lish', 'physics', 'chemistry', 'maths']}

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```
a. Will [3] =4
 outful:
  Index Everey ; lest assignment under out of grange.
b. found ( list 1 + 2)
 withul :-
  [1,2,3,1,2,3]
c. found (nun (lesta))
  outpul : -
   Type Everore; '< not supported between instances of c'int' and
                " ste'
d. fount (max ( wild ))
   outful :-
e. point (lest (address))
   outpul: -
   ['B', '-', '6', ',', '', 'L', '0', 'd', 'h', 'ë', '', 'se', '0', 'a', d',
     f. list d. extend (['e', 5])
    frunt (sister)
   output :-
    ['a', 4,'z', 26, 'd', 4, ('e', 5.]
g. usta. append (['e', 5])
    fount (list 2)
   output :-
   ['a',1,'z', 26, 'd', 4, ['e', 5]]
```

Name: Sasuat Udranty

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0

0

0

```
h. names = ['swhan's 'mehan's 'gita']
    names, sad (key = lin)
    fount (names)
   output 3-
    C'gito', 'scohan', 'mohan']
i. list 3 = [(x+3) for x in range (1,11)]
    fount ( list 3)
   output ?-
    [8,4,6,8,10,12,14,16,18,20]
 j. del 1 1 2 1 1 ]
   frunt ( list 3)
    outpul :-
     T27
K. List 4 = [x+y for x in range (1,5) for y in range (1,5)]
   fount (1est 4)
   outful ? -
   [2,3,4,5,3,4,5,6,4,5,6,7,5,6,7,8]
1. tuple 2 [3] = 6
   outful: -
    Type Evvor: - 'tuple' object doesn't suffort item assignment.
m. Suple 2. append (5)
   output: -
   Attenbula Everior: - 'tuple' object has no attenbula: 'affind'
n. 11 = laple 2 + (5)
   outful %-
   typesouve: - can only concatenale tuple (not "int") to tuple.
```

TOPPORTURE IN ANADADADA

```
0. '>'. for (tuple 1)
    output : -
     0,0,0,0
  P. list (zip ( l'apple', voiange J, ('red', voiange')))
   output :-
     [ ('apple', 'seed'), ('orange', 'orange')]
  9. dids ['x11']
    outful : -
    ['english', 'physics', 'chemistry', 'math']
er. dicto ['XII']. append ('computer science'), decto
   {'x': ['Eng', 'hundi', 'maths', 'science'], 'XII':[ 'english',
  outful: -
     'physics', chemistry', maths', computer science I?
1 Lloub me- bever . 8
  outful :-
   Jalse
t. list (dict 1. items ()]
    [C'affle', 'red'), (mango', 'yellow'), ('orange', 'orange')]
   output :-
u. lest (did 2. key())
   outful: -
    ['IIX', 'XI]
9. dict 3. get ('X1', 'Name')
   output: -
    Name
    Name: Easwat Mohanty
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                                 66.
```

Scanned with CamScanner

```
w. dect 1. update ( 2' kuwi': green')}
      fount (dict 1)
     output: -
      ?'apple': 'seed', 'mango': 'yellow', 'orange': 'orange',
         'huir'; 'green' }
A9) consider the following three sets, namely vehicles, heavy vehicles,
    and light vehicles;
    >>> vehicles = { Bicycle ; scooter', cos, Bike', Truck', Bus,
                    'Rickshaw' 7
    >>> heavy Vehicles = & 'Jouck', 'Bus'}
   >>> Light Vehicles = 2'Rickshaus', 'scooter', Bike', Bicycle'?
   Determine the output on executing the following statements:
   1. light Volucies - Vehicles - heavy Vehicles
       frunt (light Vehicles)
    output :-
     2' Bille, 'scooter, 'Bicycle', Richshaw', 'scor! }
   2. heavy Vehicles = vehicles - light Vehicles
      fount (heavy Vehicles)
     output: -
      E'Bus', cosi, Leweli'}
   3. average Weight Vehicles = light Vehicles & heavy Vehicles
     fount (average Weight Vehicles)
     output :-
      2' car' 3
   4. bransport = light/thides / heavy/ethicles
       found (treansport)
```

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```
output: -
  2' Braycle', 'Bus', Bike', 'Rickshaw', Lewck', Losotere'}
5. bransport add (car')
   fount (buansport)
  outful " -
  2' cost, 'Bicycle', 'Rickshaw', 'Buke', 'Sunde', 'scooter'
     Bus' }
6. for i'm Vehicles!
       fount (i)
    output : -
     Bus
      scooter
       Bekel
       Rickshaw
      Touch
       car
       Orcycle "
7. den (Vehicles)
  output:
8. min (veuxeles)
  output :-
    Breizele
q. set. union (vehicles, light vehicles, heavyvehicles)
 outful:
 3' car', 'scooter ', 'Bicycle ', Bike', Richeshaw', Truck', Bus'?
```