Liet = [1,2,2,3,4,1,4,5,5,6,7,7]

def powerences:

[=[1,2,2,3,4,1,4,5,5,6,7,7] for , in !! 16 (1 DOT 10 11); Trint ([1, ";", 1. coast (i), "Ames" }) 1. append (i) Jefuns (11) Occur ance ()

padrak (3)

Receirsine function:

A function that colls itself is colled a secursive Ruschios.

eg: def som - 2000 (D): 18 (2==1);

9 delemo

else

acture not sum-sum(n-1) Print (sum-sum (41)

16) Bail-in-types

1) nameric type - int, float, complex

2) Text for . etring

3) Sequence type - list and Tuple

1 wabbish Bloc - Dickosom

Scanned with OKEN Scanne

4 Booker file - pool

19) 4 lambda finction is an inline function

2 despes :

lambda arguments: expression

* we as use any so of assuments
but only one expression.

* use of lambda functions book:

lambda functions maisly used in higher order functions.

Bython higher order functions are:

Juston:

map (lambda x: x** 2 D)

2) Eiltercs:

Filter function is used to filter the element of from the sequence after applying given sequence.

Siven sequence.

eg:. n= [1, 2, 3, 4, 5, 6]

filter (lambda x: x% 2 = = 0, n)

3) Reduce (s:

Shope ..

import functions forstods. reduce (Runction, Herable)

4 Reduce function used to reduce the given sequence 1sto a single value after applying function to it.

Fibonocii Senies

9,6=0,1 count = 0 while (count = 10) P-11-21 (a) a, b = b, a+ b coust + 1

(0) Pet Pragram to check a string is polisdronge S= input ("Enter the string:")

for i in marge (lences) -1, -1, -1):

sign = ser + sci]

Print (rev)

18 (mer = = s):

Print (" String is Palindrome")

Prist ("String is not Palindrome")

Scanned with OKEN Scanner

```
14) racedos Armstrong
    w= , abry (,, Ester po wasper,)
    1 = les (s)
      Sum = 0
     for 1 10 10!
        Sum = Sum + 1'st (i) * * )
     16 (2000 = = int (20);
           Brist (« Womper , yensylassa)
      else:
          brist (" Donsper & sol ameryand")
  det genove-duplicate (list):
          Dew-list=[]
         for ; 10 liet.
            If (i not is sew-list).
                 rew-list.append(i)
           defour von-lig
    list-= [1,1,2,3,4,5,6,6]
     result = Demo genove-duplicate (list)
     Prist (nes-11-)
      0/0: [1,2,3,4,5,6]
```

Scanned with OKEN Scanner

6) words = ['bossosa', 'chocnay', 'appricot', 'kisi', (ocosul', 'avacedo', 'apple'] for and in sounds! If i. starte with ('a') or i. startwith ('A'): break. S= input (" Enter the string" S1 = S. Split c) longest-word="" for: 13 and 51: 18 (les (i) > les (longest-word): longest-word=i Print ("Longest word:" longest -word).

Scanned with OKEN Scanner