Progeam No:1 Dins: Python program to find area. de la area [7]: Pi 2 3.14 retuen = Pi* (r* v); num = float (Input ("enter the value for: ")). Print ("Area is "10.6/" ". area (num)). Result ! The program has been executed and the output was verified.

Output. Endee the value for :3. Area is 28.26000. Program No: 2

Aim: Python program to find largest among
3 Numbers.

number 2 = float (Input ("enter the text number")).
number 2 = float (Input ("enter the second number")).
number 3 = float (Input ("enter the floord number")).

16 (number) number 2) and (number) number 3): Largest = number 1.

e lif (number 2) number 1) and (number 2) number 3).

lægest = number 2.

else : largest = numbres Print ("The largest number is", largest).

Result:
The program has been executed and the output was verified.

Output

enter the first number of
enter the second number of
enter the the durd number of
enter the third number of
the largest number is 5.

Progeams No:3.

Aim: Python program to find square of a number digit = lot (lopul ("enter an integer number")).

Square = digit * digit

Print f ("square of Edigit) is (square)").

Result :

The program has been executed and the output was verified.

Output an Integer number :4. Ente 4 6 16. Square (E monning Consideration) book (I widown & & Program No: 4

Aim: Python program to find area of Circle.

from math Import pi.

Y = floot (Input the gadine of the coule:"))

Print ("the oren of the circle with gading" + Str(r)+"15:"+ Str(Pi*x**2))

Result:

The program has been executed and the output was neitied

Output Input the ladius of Cinte! 4. The area of the circle with ladius 4.0 is 50. 2654 . he from was veer feed .

Program No:5

Aim: Python program to tind square of n.

list 1 = [14, 20,13, 8,6,2].

tor n in List 1:

Square = n* * n.

Print (n, squared is, square).

Result.
The program has been executed and the output was veeited.

Output,

14 Squared is 196.

20 Squared is 400

13 Squared is 169.

8 Squared is 64

6 Squared is 36

2 Squared is 4.

Progeam : 6 Aim: Python progeam to find vowels in a string string 1 = "Hello .. How are you" Print ("Given string : lo", string A). Vowels = "AaEeIiOoUu".

res = Set([each for each in string A if each in Nowels]). Print ("The vowels present in the string ". In", res).

been executed and the The program has output was recified

Output

Given Shing!

Itello... how are you.

The vowels in the shing:

how? (2', 'e', 'o').

Aim: Python progeam to count words in a sentence

del word = (ount (str):

Counts = dict () Words = Str. Split ()

for word in words!

If word is counts: Counts [word] = 1

Counts [word] = 1.

letren Counts.

Print (word-count ('when you change the quality of your thanking, you change the quality of your life formetimes (nstandly)).

Result:

The program how been executed and the output was relified.

Output of how book of many l'when': 1, 'you': 2, 'Change': 2, 'the': 2, 'quality': 2, (01': 2, (youe': 2, 'thinking':1, 'life': 1, (bonehmes':1) 'Instantly ': 1]. (("The voice present in the thing its").

Program No:8

Aim: Python program to count a in a liet.

a = [Anto', (Rehan', Billan', Donis').

Str1= ('!. join(a)).

Count = 0:

for i in Str1:

If i = 'a':

Count = (ount +1.

Priot("(ount of a in the list is:"

+ Str (count)).

Result!

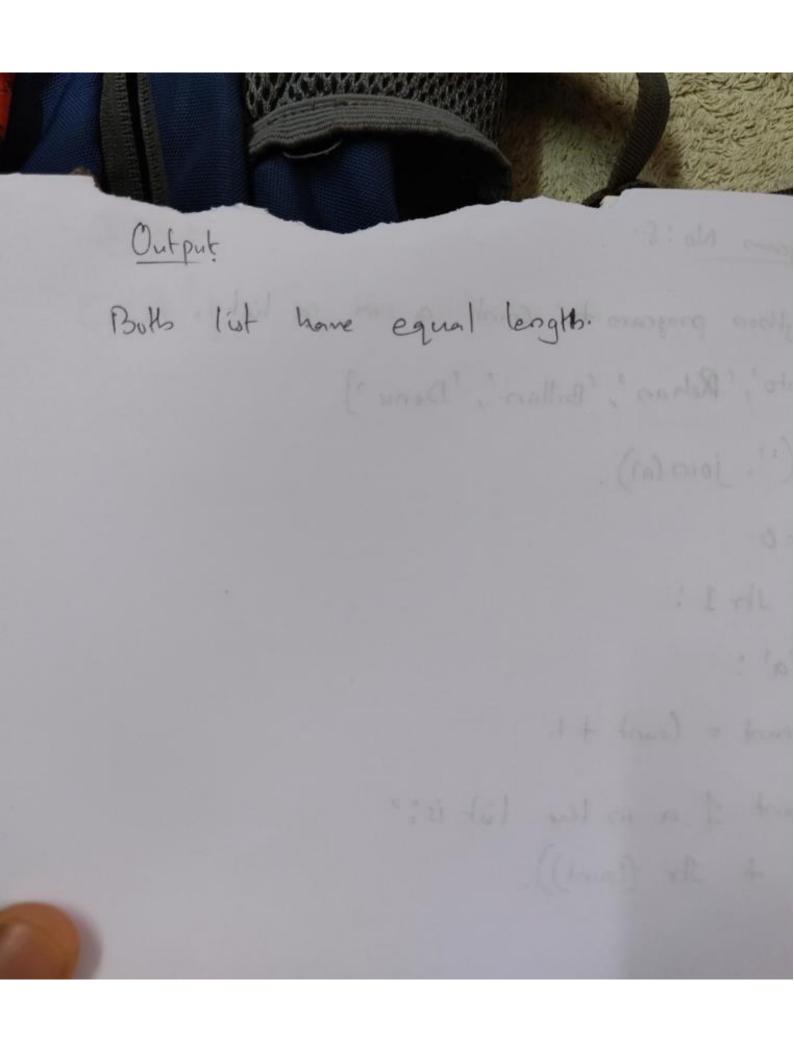
The program has been executed and the output was resified.

Output Count of a in the list is 83. Court [Wordle 1

Program No:9. Aim: Python progeam to check the length of lists. Lut 1 = [10,10,11,13,13,14,16,15,16,10]. 16+2=[16,12,13,14,15,16,10,11,12,10,12] len 1 = den(list 2). len 2 = len (list a) If ten 1 = lend: Print ('both list have equal length'). Print (both list doesn't have equal length) else:

Result

The program has been executed and the output was veeified.



Progeam No: 10.

Aim! Python programs to check the rum of list.

list 1 = [10,10,11,12,12,13,14,16,15,16,12].

list 0 = [16,12,13,14,15,16,10,11,12,10,12].

total 1 = Sum (list1).

total = Aim (list a).

If total 1 = total 2:

Prot (both lut have equal sum').

Print ('both l'ut doesn't have equal mon'). else:

Result

The program has been executed and the output was verified.

Output Both list have equal hum. Program No: 11

Aim: Python program to check the common elements in the lists.

list 1 = (10,10,11,12,12,13,14,16,15,16,12) (i) = (10,10,11,10,10, 16,14,16,15,19,10).

for value in lot 1:

If value in list 2:

Common = 1.

1 (om mon = 1:

Point (" there are common elements").

else : print ("no common elements").

The program has been executed and the output was verified.

Output u common elements. Progeam No: 12.

Aim: Python program to replace a character

det Change - chae (str1):

chae = str 1 [0].

Str 1 = Str 1 · replace (chae, '\$').

Str 1 = Char + str 1 [1:].

Print (change - chare ('refresh')).

Result

The progeam has been executed and the

Output ref sesh

B1, P1, S1, 31 31 31 31

26 401

1.50

(Homes a comes of

Progeam No: 13.

Sim: Python program to exchange the tinst and last letter in striping

def (hange - string (str 1):

Setuen str 1 [-1:] + str 1 [1:-1] + str 1 [:1].

Print (change - stringing ('pineapple')).

Result

The opageans has been executed and output was recified.

Output. eineapplp be subject of money · I - replace (chas, 2). chara ('supresh').

Program No: 14.

Aim: Python program to meege of dictionalies

del meege (dict1:dict2):

Achien (dict0. update (dict1)).

dict 1 = l'a': 10, 'b':8).

diet 2 = {'d':5,'c':0}

Prot (Meege (diet1, diet a)).

Prot (dieta).

Result:
The program has been executed and the output
was recified.

Output

None q'd':5, (2:2, 6):10, (6:8).

[1] 1 de + [1-1] 1 de + [1-1] 1 de ou

((stypneng)) ereggint - 1

box lister condition and

Program: 15

Aim: Python program to ascend desend dichonaly

Import Operator

d= {1:0,3:4,4:3,0:1,0:0}.

Print ('Original dictionaly: ', d).

Sorted - d = Sorted (ditens (), Key = Operator. itemsetter (i)).
Print ('Dictionney in ascending order by value:',
Sorted -d).

Sorted-d = diet (Sorted (ditens (), Key = Operator. Hemgetter (D), severse = Tomb).

Print (Dictionary in ascending order by value: ', Scribel-d)

Result

The program has been executed and the output was recipied.

Output

Original dietropaey: {1:2,3:4,4:3,2:1,0:0}.

Distronary in oscending order by value: [0,0), (3,1), (1,2), (4,3), (3,4).

Dichonney in descending order by value!

93:4,4:3,12,2:1,0:0].

Program 16

Dim: Python program to remove even numbers from the

list = [1,22,33,44,55,66,77,88,99].

Print (16st).

for i in lit!

if (i 1.0==0)

16t semone (i)

Point ("list after removing: ", lut).

Remit

The programs has been executed and the output was verified.

Output

[11,22,33,44,55,66,77,88,99].

(1st after removing: [11,33,55,47,99].

d = lorded (difference to they = Operator - the mage thee (a)

it autor pol salare problem on passonic

of = diet (conted (disterns (), they = operator: Heavige

Program No: 17

Aim: Python programme to find god of number.

del gcd (a,6) !

1 (6==0)

Schres 2.

Setnes gcd (6, 9% 6).

a = 45

b = 65

1 (gcd (a, b):

Print (gcd of , a, and ; b ; 15', gcd (a, b)).

else !

Print ('not found')

Result

The program has been executed and the output was recitied

Output GCD of 45 and 65 65. Progeam No:18.

Aim: Python program to find factorial of a number.

num = int (Input ("enter a number:")).

feachinal = 1

if num < 0 :

Print (" sorry, tactorial does not exist for negative numbers").

elif num = 0:

print (" the factorial of 0 is 1").

else!
for 1 in range (1, num+1):
factorial = factorial # i

Print (" the factorial of ", num," "", factorial)

Result

The program has been executed and re the output was recipied.

Output Enter a nurs bee! 5

The factorial of 5 is 120.

Progeam No :19.

Sim! Python program to find fibonnaci sequence. det recu-fibo (n): でしゃんかっつか if o <= 1:

getres o

Retnes (recue-filos)+ recue-filos (n-2)) else !

nteems = Int (input ("How many teems ?")).

If n deems <= 0:

Print ("Please entre a positive integer.").

Print ("Fibonacci sequence: "): for 1 in range (o teems): Print (recue - fibo (i)).

Result

The program has been executed and the output was recified.

Output.

How many beens? . 4.

Fibonacei sequence:

1 1 0.

and does for each larm

(00.13)

Program No: 20 sim: Python program to perform wany string function. det add string (str1): length 2 len (str 1) If length > 1: If str 1 [-3:] : "ing" ! 3/ 1+ = (14) else! Sh 1 + zing' gehan str 1

Print (add - string ('do')).
Print (add - string ('according'))

Result

The program has been executed and the optput was verified.

Output. doing accordingly

Program No:21

Aim: Py then program to perform the trum of gener items.

numbers = [1, 2, 3, 4, 5, 2, 5].

Sum: Sum [numbers].

Print (dum).

Repult

The program has been executed and the output was

Output 22.

Drugeam M.: 20

print (1)

Sim: Python proglam to find prefert even square musbees in a large enum] = int (input ("Enter a number!")) enum 2 : int (input ("touter a number:")) for \$: in sauge (nums, nums+1): tor j in range (32,100 +1): il 12 j*j: Slowing = ola (i). If int (shing [0]) 1. 2=20 and. int (string [2]) 1. 0 = = 0 and. int (shing [0] 1. 0 = = 0 and. int (shing [3] % 0 = = 0 and.

Result.
The program has been rescented and the output was recified.

Output and 199 of as Enter a number :4444. Luter a numbre : 9999. 5,0,8 4604 60 8 % 6400 8464.

extended and the orders

Program No: 23.

Dim! Python programme to display the given pyramid with step number accepted from user

lines = int (Input ("Entre a numbre:")).

() = 1 = 1 = 1.

while ix z lines

i=1 while I <= i:

tempz i Xj

Print (temp, end 21', flush = bue).

Print (" ", end=1", flush z true).

Print (" ");

iz i +1;

Result

The program has been executed and the

Output tiput holing buil of in Enter a crimber: 4. ("Enter a nambrer !") 4 6 3 6 9 («: sedomme selve) 16. (14. Garner, I am : (1+00),68) spr Jans 0 == 6.1. [13]

Program De

Aim: Python programme to count the number of characters in a string.

det chae - frequency (ih 1):

diet 2 27.

for u on this:

Keys 2 dict. Keys ()

it u in keys:

diet (n]+2]

else!

dirt[n] = 1

letnes dict

Print (chare-frequency C'hello how are you')).

Result

The program how been executed and the output was recified.

Output was as a surreporty world into l'h':2,'e':2,'1':2,'0':3,":3,'w':1,'à':1, (8':1, 'y':1, 'Y':1). Jan Hagal) for a as' E = 1 XP PO south 21 stilles : 9 . D. T. Starles 141 squark · (sud o Stuff, "I Dans, quest) ture! · Comb = And 1 (1 - bons, " ") ton? Progeen No: 25

Sim: Python programme to accept a lot of words, and refuer length of longest word.

det find (word) !

w1,()

for n in words: w1. append (len(n),n))

w1. Sort ()

Print ("longest Word:", result (a)).

Print ("length of the longest word:", result (0))

find ["hello", "morning", "hi"]

The program has been executed and metput was verified.

Cutput all tones of surrespond worky longert word : morning tength of the longest word: 7. yes dict. Keys O يد إلا الدوري: Program No! Db

Aim: Python program to construct pattern wested loop.

del store ():

1: n=5.

for i in range (i):

Print ("*", ends"").

Print ("")

for i in range (u,o,+):

for i in range (u,0,1):

for j in range (i):

Print (" *", end = "")

Print (" ").

Ane ()

Result.

The program has been executed and the output was verified.

ed and Output tell a ligarer of summargory in tehen length of length would : (brice * * * * * * * * * * * * * * * insucu. * * * (Co. (contra)) bouggs * * 21 [1] [6], wat [4] [4] (Ca) there is a south (a) (Co) the longest word: ", sunt (o)) [" 12] 11 11 polices 10 11 11 2 had been executed and wedget

Progener No 24 Dim! Python program to print factors of a Minsbee. det print - factors (x): Print (" the factor of "x, " are: ") dur i in range : (1, X+1): ilxi/i==0 x: when may salas Enter your value is (i) thing Print 2 tactor s (032). Result Eurles Gens wales : 3 The proglam has been executed and the output way recified. Asser of defense: 4 - a lambde hydyl " Like 2 & 3 ston free Ja milh The little of the way to the Before of James .

Output The factors of 232 are: i (a) spread or i : (1) opensons i 201. (" " along, " 7") from 9 58 (1 st) from (4 116 232 : (E,O,N) 3prop NI 1 : (3) squate in 8 000 (10 11 - loves, " + 11) tours · (00 11) Answell higher with and the confirm

```
Program No: 21-
Aim: Python programe to write lambda functions to find area of equare, mangle, rectangle.
Pront ("Enter the length of side of square!")
Print ( Enter the lengths and breadth of restaugle?)

1 = Int (Input ("Ruter your value!"))
b = int (input ("Endre your value!")).
Print ('Enter the base and height of mangle!)
 h = int (input (" Entre your value: "))
It = int (Input (" Entre gone value : ")).
X = lambda S: S * S
y 2 lambda 1, 5 ! 1 * 5
2 z lambda h, d,t! ht d*t.
Prost ("Area of square is: ", x (5))
Pont ("Area of Restangle 6: ", y (1,6))
Print ("Asea of briangle ":", 2 (h,d,t)).
```

Prendt.

The program has been executed and the autent was needfield

. sol Outputs to water thing it mayour most of length of a side of square Enter the Luter gave value: 2 " or" to what will 9 to g later the length and breadth of Rectangle 0 = = 1 /0 x /2 Enter your value : 21. value: 2. (a) traiss Enter your leuter the base and height of margle Entre Gone value: 3 Enter your value : 2 program bond Area of square: 4 A rea of reet angle: 8

Alea of Iniangle: 30

Progeam No: 29

Aim! Python program to duplay future leapyears
from consent year to a final year entered
by user.

import date time.

a: datetime date time now()

a: int (a year).

bz int (input ("Enter final year:"))

Print (" In leapyears:")

for i in sauge (a,b,+1):

if (i 1.4 = = 0)

Print (i)

Result

The program has been executed and the output was recipied.

Cutput.

Cutput.

Cutput.

Lude final year : 2040.

Leap years: Output: 0004 tee length and boundle of heet 3008 (" sules you value: ") 00 30 · ((" sules gave solves")). 20.36 2048 and believed for and will ((" Ender your value: ")) . (" sules your value : "). 24719 · + 4 10 4 1 1 1 10 , 11 (cox ? : s ways for (6.1) E " : 1 spenator for Program No: 30.

Jim: Python program to generale positive list of numbers from a given list of integers.

list 1: [1,-1,2,-5,9,-2,-54,67,-33,-46,24,-67].

Pose list (a) ()

to i in list 1:

if i > 0

Pos append (i)

Point (original luti: luti).

Point (positive integer lut! , pos).

Rendt

The proglam has been exembed, the output was recipied.

the Popular propert to doplay forbers honging Output and may have and Original 16st: [1,-1,2,-5,9,-2,-54,87,-33,-76,24,6] Positive lukgee 18st! [1,2,9,87,24]. is not (anyear). (to say bond white they god to sad (" les leap good est ") tour? ! (1 + , d, a) spund at 1 10 (1-44-0) (1) from 1 the program has been executed and the categor was necified. Program No 31

Dins: Python program to find laggest of 3 numbers entered.

b = int (input (i Enter 1st no! 1))

C: int (input ('Enke 3rd no!'))

if a>b and b>c:

Print (a,ii) the biggest numbers!)

il ba and bac:

Print (b, is the biggest number).

else !

Print (ci'is the biggest number).

Result

The program has been executed and the output was recified.

Pagar Mar 30 Entre let nois de many many Enter ond no ib a mar o- par on 1 1).1 Rusce 3rd no: 8 1 (m) (m) 8 is the highest number t tolor i (i) Dungge (i) (1 tot : 1 tot 1 housers!) (positione integer lat ! , pos). your las been executed, the output 2001/1351

Program No: 32

Ann! Python proyeans to create a list of colors from commas - Separented color names, entered by user Diplay first and last colors.

Colors 2 (input ('Enter colors treparated by commas in)).

split (',').

Print ('Frist color: ', colors [o]).

Print ('Last color: ', colors [res colors-1])

Result.

The program has been executed and the output was recified.

Monthly from to find legged of 3 amplies separated by commons: red, Hack, lendre colons. (Creative salual) tugal) to: 13 15Kd hum den je first color : red lost color : yellow the god at mind) the :) 60 hop and j; · (posterne happed all " is ", et) tring suls. Print (Citis the longgest number). is program has been executed and the entput Ami. Python program to point out all colors from Color lot I not contained in color list 2

Colors 1 * Jet (Cinput (' Euse colors separated by Comman : ')). Split (',')).

Colors de det ((imput ('Enser Colors déparaded by Commans !')). split (1,1)).

Print ('Colors in color-list 1 not contained in Color-list 2 are: 1, 10st (colors 1 - difference (colors)).

Result

The programs has been executed and the output was recipied.

the of and a work sold who does to all from

· Him of person is a part when the still person

Era alpendade la M. hourd ish

12 Calaria de continue all sal

alidades of selection

Tolordes Josephine 15

Output

Bute colors separated by common had back, while

Colors in color-list 1 not contained in color littles:

[brown, 'real', ryellow]

higher with James Water wood and marging will

Just recifical.

Porogram No: 34

Aim' Python program to create a parkage graphics with modules rectangle, circle and Rubpackage 3D graphics with modules, ruboid and ophere. Include methods to find area and perimeter of respective figures in each module. Write Programs that find area and perimeter of trgues by different importing statements.

Circle . Py

del area (x):

Print ('Area of concle with rading', r, 'is!', "o'loof' % (3.14* r* r), 'sq milb').

del cinumference (7):

Point ('lircumference of circle with radius', 8, 'i):', '06. Of'1. (3.14*24), 'wits').

Sectangle. Py

def area (a, b):

Point ('Area of rectangle with order', a, 'and', b, '15:', '6. Of' % (a+b), 'squaib').

alet perimeter (a.b):

Point ('Perimeter of rectangle with rides', a, and', b, '15:', 1%. of '% (24 (a+b), 'units').

Sphae : Py

del area (2):

Point ('Area of opher with radius', 2; is: , 1 % of 1% (44 (3.144 24 2)), 'Sq. units').

```
det perimeter (2):
    Print ( perimeter of (great circle of ) sphere with
    ladius 1, 8, 10:1, 1%. 2f 1% (2x3.14 x8), 'units').
  Cuboid Py.
del area (1,b,h):
   Point ('total sneface area of cuboid with dimensions
  ; l,','b, 1',h,'u:', '6. of (146) + (646)+ (146)
   , ' dog . wits ').
def perimeter. (1,16,16):
  Point (permeter of cuboid with dimensions;
   1, ', b, ', h, 'u:', 1 % of "6 (44 (4+6+6))., 'units).
 Find. Perimeter. Py
 Import circle
 from rectangle import &
 from geophics. 30-geophics impost cuboid, sphere.
 a = float (input (' Enter length of the sectangle :'))
 to + float (input ("Entre breadths of the reetangle: ")).
 Perimeter (a,b)
 2. float (input ( Entre the Radius of the circle: '))
 Circle. Circum ference (r)
  t = float (input ('Ender length of the cuboid:'))
 b= float (input (Ender bacadto of the cuboid:))
 he float (mput ("lusce height of the cuboid!))
 Cuboid Perimeter (1,6,6)
 7: float (input ( Enter the radius of the sphere ! '))
  Sphere. pecinetee (r).
```

find our py office alpendant Import circle. from restangle import * from graphics - 30-graphics import cuboid, ophere. b. float (input ('Entre length of the rectangle:'))
b. float (input ('Entre breadths of the rectangle:')) area (a,b) 9: Float (input ("Luter the gadins of the circle".") circle 2 area (x) lengths of cubord: ") to float (input ('Enter be float (input ('Enfee breadth of enboid: '?) h= float (ipput ('Entre height of Cuboid:')) Cubida area (1,6,6) r: float (Input ('Endee the roadons of sphere; ')) sphere. area (2) Kesnlt The program has been executed and the output is verified.

Output Entre length of rectangle et Entre breadts of sectangle = 3. Perimeter of sectangle with order 4.0 and 3.0 6:14.00 luter flu radius of the circle: 2 Conumperence of the circle with radius 2.0 is 12.50 mg Enter length of the embored! 5 Enter breadth of the cuboid:4 Entre height of the inboid:3 Pecimeter et cuboid with dimensions 5.0, 4.0, 3.0 is 48.00 units. Ender the radius of ophere: 2 Perimeter of (great unle of) sphere with radius 2.0 is 12.56 unib. harfiar weighted. Enter length of restangles 2. Enter barand the of recongle = 3. Asea of sectangle with order 2.0 and 3.0 is: 6.00 lgmin later the gadins of circle: 4 Area of circle with rading 40 is 50.004 Equaits. Knowle length of cuboid: 4 Later bardelts of cuboid: 7 Enter height of cuboid: 2 Total metace area of cuboid with dimentions 4.0,7.0, 2.0 b 100.00 sq. mits.

Enter the radius of ophere: I. Area of sphere with radius 1.0 is 12.56 units. lation program to state a particular problems 30 geophics with produles, redoord and spless. to chiefe mosthades to find ones and perineter of suspective figures to each noodede. What thought phrogen tought by the second 1 - 3 m Print ("Area of reads with raching" a, in Porus (" Essensferrences of circle wife radius; : (r) mangement 8, 9 = 1, 10 10 10 (3. 14 x 232) 1 mits).

```
Program No: 35
  Aim! Python program to secta create sectangle class with
  altributes length and breadth and methods to trad
  area and perimeter. Compare two rectangle objects by
 their area.
 Class Rectangle
                             especial invalue was which
   de { - init - (self, 1, b):
                              1) 1 hastrogato a. cocaos . 281
   dell · length = 1.
    Jell breadth b
                               unstantion of towns while
 del area (sell);
  Retuen self lengts & Self-breadths
 det pecimeter (selt):
     refuer at (self length + self breadths)
def imp (telf, obj):
    If telf. area() > obj area():
   Print ('Rectangle with length = ', self length, 'and'breadth'=
    Self breadth, has the greater area?).
elif self. area () ( bbj. area ():
  Print ( Rectaugle with length = 1, obj. length, 'and breadth =
  obj. bleadts, I has the greater area!)
 Print (they have equal orea!)
 81. Rectangle (9,3)
 20 · Reetangle (3.4)
 ri. imp(ra)
Kearlt
The program has been executed and the output was
reified
```

Output Revetangle with length = 9 and breadth = 3 h greater area. (column del f. autor all edus") tignis) to (" : brodus fo idpust bendis) fugui) for (60: brooks to Abserd solus') tugni) tool 4 float (soput (fuke helpted of subord:))

Progeam No: 36 Aim: Python program to create a Bank account with members a count number, name, type of account and balance. Write constructor and methods to deposit at the bank and withdraw an amount from the bank. Class Bank account: det - init - (felt, a, n, t, b): sell · acno = a. self - name = n self. type = + self. balob. def deposit (JeH, a): Jelf balt = a. Print ('Rs.', a,' deposited! (wrent balance is Rs.', self. bal). def witholaan (set, a)! if self bal> = a; Print ('Rs.', a, 'withdeaver; merent balance is Rs.', felt. ban) Print ('Insulficient balance to make this trumachon!') a = Eint (input ('Enter account number's!)) n= int(input ('Enter name of the account holder:) t: input ('Enter account type: 1). ac 1 - deposit (bloat (input (conte ameunt to deposit of)) be float (Input (Ruter your balance: ")) ac 1. Withdraw (float (imput l'Enter amount to withdraw : ")) The program has been executed and the output was vieitied

Output of motors of more of manging and a Enter account numbre : 00900909090909. Luter account type: Januage Entre your balance: 100000 Entre amount de deposit'. 300000 Rs. 300000.0 deported! (warent balance is Rs. 400000.0 Luter amount to with dean! 5000. Re 5000.6 withdemon! Current balance is: Rs. 395000.0 (athered for tolly length toll beautist : (10 (fell, ob) ? if self area () I obj : area ():

No: 34 Progeam Ain: Python program to create sectangle class with athibutes length and breadth and methods to find area and reinster, compare 2 Rectangle objects by flier area. Class Metrogle: det - init - (self, 1/6): for the land of the J' I specialist long & Affrica which delf. length 21 delf. breadth . 6 refuer delf. lengtist delf-breadly def area (self): det pecimetee (self): return 2 * (tell. lengthot self. brendth) definp (felf, obj): If felf area (); obj. aran ()! Print ('Rectangle with lengths=', self. tength, 'and breadth = ', self. breadth, 'has the greater area') elit self. area () < obj. area (): Point ('Reclarge with length = 1, obj. length, 'and breadth = 1, obj. breadth, 'has the greater area'). else! Print ('They have equal area!') r1= Rectangle (913) 22 Rectangle (314) 81 = emp(ra) Result.

The program has been executed and the output was recipied.

Output Rectangle with lengths 29 and breadths 23 has the greatee area. back and withdraw as angenot from the in Bank account: 300000000 de de la 1: (d. 1.01, p. 1/36) - fins - job 161 - a (100 = a. (many) (my) + 0 391 do d) de lad l : (10, Hot) trangels. selfibaltea. 185. a, deposited surrent balance in Rs. self. bul). ithodago (self a): : p= < lad. DE- 100. lad. Ist i - 28 20' sonshoot forecent I consolotion' is i. 28'

Progeam No: 38

Sim: Python programs to create a class Rectangle with Private attribute length and width overload's operator to compare the area of 2 restangles.

Class Rectangle:

det - init - Cself, 1, w):

telf. - length 21.

self. - widts = W

self. area = self - widths & self. - lengths def - if - (self . other):

If telf area & other area:

Print (Rectangle with length = 1, self - length,

and width = 1, felt . - width, 'has One lesser area!')

elif okue. area (self. ara:

Print ('Rectangle with length = 1, other - length, 'and width = 1, other - width, ' has the lessee area!")

Print ('they have equal area!)

1. Hoat (input ('Enter length of 1st rectangle !?))
w: float (input ('Enter widths of 1st rectangle!))

K1 2 Rectangle (1, w)

1 = float (Input (Enter lengths of and rectangle ?!))
We Heat (Imput (Enter Wrolfs of a not rectangle ?!))

Ros Rectaught, w)

RIKRR. tight? Book title: Baggaming with Poplan. Result The program has been executed and the output was verified. Publisher: Alac Broken P. 313 : 1016 use : where to oly

CHASPAR Output wals aprostock stances of mas Enter length of 1st restangle:7 28,009,000 Enter widts of 1st rectangle: 8 sufce length of ond rectangle: 8 Rister width of ond restaugle: 7. J . alf) : (jd). 100 pep. (do <00 p long! afterst. Itsb ! - afterst affice store self. breadth, 'was the greater aun?) 100 40 pg . Ode 5000 age with length or objected oracle area). ("They have equal ascal")

Progeam No: 39.

Dim: Pythen program to create a class Publisher (name). Desine class Book from publisher with. allowhere title and author. Decine class python from Book with attribute mice and no-of-boyes. White a program that duplays information about a python bush. Use base, class constructor invocation and method overriding.

(1) (1) cont (1)

Class, Publishee:

def - init - (felf, name 1).

Jelf. name = name I

del show (Jelf):

class Book (Published:

def - init - (self, title 1, author 1, name): fell fille = title 1.

self. author 2 author 1

Publisher - mit - (self, name 1).

def Now (Jelf)!

Class python (Book):

def - wit - (sell, P, no, titles, author 1, name 1):

Self. porce = p.

Jelf. no - of - pages = no.

Book . - init - (self, tible I, author I, name I)

det show (self): Print (Book hille:", Jelk-hille), Print ('Author'.', Self author). La sist and Point (Publishee: self hame). How How Print ('Price', self. price)
Print ('No of pages': , self. no - of - pages). P1 = Rython (565.90, 250, 1 Programming with python, "GV Rossum; (ABC Books). I some a smon. Ilst P 1. Mow (). olet show (self): Result The program has been executed and output was def - init - (self, titles, author 1, narus); recipied. fell fille = tille 1. self. author = author]

Output
Book title! Programming with Python.
Author! GV Rossum
Publisher! ABC Books.
Price: 565.9.

No of payes: 050.

Program No: 40

Simi. Pythors programs to read on file line by line and store it into a list.

de file - send (t name):

Content - l'ut is the list that cootains the gead lines.

of clempus waynesty

14 936 Sins 1 234 1145 11

C=f. gead lives ()
Print (()
point (lens (1))

file-read ("demostat")

Repult

The program has been executed and the entput was recified.

Output.

I'A brailer is a relaise designed for carrying bulk material, often on building states. In', they are distinguished from dump denets by configuration: a dumped?

Program No: 41

Sim! Pythin progean to copy add lines. of one tile to or = open ('demotet', 'r')

b 2 open (it. bet', iw)

c = a . read lives () oi ". "[= = = = 11] ", "[= = = = [] "]

for i in range (0, len (0)):

if(i % 2 ! =0):

be write ([[i])

else!

Pass

6. Closer)

6=0pen ('t. het', 's")

d = b · read ()

Print (d)

a-close ()

b. dose ()

The program has been executed and the output was recipied.

Output They are distinguished from dump micks by configuents a dumpee is usually an open 4- sheded vehicles with the load skip in front of the deine. the temperat - list is the list flent cooking the () soul lines () = 5 (co) enol) true q === ("Later comeb") longer -slis Alma) In program has been executed and the entert Dollar use

Progeam No: 42

Sim! Python program to read each raw from agines as tile and print a list of strings. import CSV

with open (temp. csv', new line 21') as esv hile: d= CSV. Reactee (Covhie, delinetee=11, quotechae=1). Prut(, join(r)). [se se ce] [elicini] for vind:

The program has been executed and the output was neeified.

Cutput

"[11, 131, 131]", "[33, 35, 56]", "[35, 30, 30]",

"[31,40, 55]", "[1,25, 55]", "[10,110,140]"

"[11, 131, 131]", "[33, 25, 56]", "[35, 30, 30]",

[21,40,55]", "[1,25,56]", "[6,,10,40]".

(1:73) stimus od

,

(- tot : 130)

Program No: 43.

Aim: Python program to read specific colourns.
of a given CSV tile and print the content
of the colourns.

· (apost 650) [30, 25, 28] (3) amula) "[31, 60, 11] ": [61)

with open ('temp. c'sv', new line = 11) as csvtile:

data = csv. Diet Reader (svtile)...

Print ('ID Marri)

for sow in data:

Prut [row [[idi], row [coloums]]]

Realt.

The program has been executed and the output was received.

Output to Mane 2 10 461 10 hong long ['1','2','3'] [33,25,56].
['1','2','3'] [33,25,56]. [11,121,13] [33,25,56]. ['1','2', 13'] [33,05,56]. ((c) Mol) has been executed and the ortent

```
Program No: 44
Sim! Python program to write a python dictionary
to a cs v tile. After writing the cov file aread the
csv file and diplay the consent
Import car
esv columns = ['ld], 'Column 1', Column D', 'Column 3',
               Column 4', (column 5)
dict -data = h' ld': ['1', '01,'3'].
   ( (olumn1': [33,05,56].
  '(dumn 2': [35,30,30].
  ' (dumo 3': [01,40,55],
  1 Column 4': [71,05,55],
 (olumo 5' : [10,10,40]}.
 CsV-file = "temp. CSV"
 by with open (cov-file, 'w') as covfile:
Writer = CSV. Dict writer (csvhierfieldnames = esv-columns)
write vorite header ()
for data in diet data:
Writee . waiterow (dit -data)
```

except Iogram!

Point ("I/O ever")

data = csv. Brit Reader (open (csv-file))

Print ("csv file as a dictionary : In")

for sow is data:

print (and)

Result

The program has been executed and the output was verified.

Output

1' (d':"['1'; 2', 13]", ' (aloumn)': '[33, 25, 56] ; Column 0".

1' (d':"[(1) () () ()] ". 1'ld':"[(1', '2', '3']", 'Columo I :: '[33,25,56]', 'Columpo 0", {'ld':"['1', '2', '3']", 'Column 1':1 [33,25,56]', (olumno), { 'ld': "[1], (3') 1, (dumo 1': 1(33,25,56)'. (dumo 2'; 4'ld'!"['1', 5', 13:]", (olumn 1':, [33,05,56]; (olumn 2);

> in how in data: Parut (row I [101], row [rolemo]]

Pearly. The program has been excented and the cutput was verified.