Pate: 17/01/2021 Program - 1 AIM: Bython program to find largest among 3 numbers a = float (input ("Enter first number:")) b=float (input ("Enter second number.")) c = float (input (" Futer third number: ")) If (a>6) and (a>C): biggest = a elif (6>a) and (b>c): biggest =b else: biggest=C print ("The biggest number is", biggest) Result: The program has been executed and outfut is Mrified.

### output

Enter first number: 4

Futer second number: 6

Enter third number: 1

The biggest number is 6.0

Program - 2

Aim: Python program to find area & circle

def area(v):

pi = 3.14

return pi × r × r

vadius = float (input ("Enter the radius:"))

a = area(radius)

print("Area 1s:", a, "sq. units")

Result: The program to has been encented and outfut is verified

Output

Enter the vadius: 2

Area is: 12.56 sq.units

1 (150) hub (120) 113

17/01/21 Program - 3 Aim: Python program to lind are of number n=int(input("Enter an integer:")) Square= n×n print ("square of 2", n, " is: " square) Result: The program has been enewated and output is verified.

Dutput

Enter an Integer: 3 Square of 3 is: 9 26/1/21

Program -4

Aim: Python frogram to dind square of numbers

list = [4, 8, 10, 3]

for nin list:

square = n \*\*\* 2

print (square; ', ')

Result: The program has been encented successformed output is verified.

Dulput

when property he ford with

16, 64, 100, 9,

## 26/1/21 Program -5

Aim: Python program to form a list of vowels selected from a given word.

String = "This is a python program"

print ("The string is: ", string)

vowels = "Aa Ee Ii Oo Uu"

final = set ([each of for each in string if each in vowels])

print ("vowels present are:", find)

Result: The program has been some enewted and outfut is verified.

Dutput

The string is: This is a python program
Vowels present are: { {1, a, o }}

Marian Company of the Party of

## 26/1/21 Program - 6

Aim: Python program to count to the occurrences of each word in a line of tent.

def count(str):

d = dict()

words = str.split()

for word in words:

if word in d:

d [word] += 1

else:

d[word]=1

return d

print (count ('this is a python program to count the occurrences of each word in a like of tent'))

Result: program has been encented and result was verified.

Output

{'this':1, 'is':1, 'a':2, 'python':1,

'program':1, 'pto':1, 'count':1, 'the':1,

'occarence':1, 'of':2, 'each':1, 'word':1,

'in':1, 'line':1, 'tent':1}

#### 26/1/21 Program-67

Aim: Python program to store a list of first names and count occurrence of a' in the list.

list = ['Ravi', (tom', 'John', 'Sam']

count = 0

string = "'.join (list)

for in in string:

if i == 'a';

count = count+1

print ("count of (a) in list:" + str (count))

Result: The program has been executed and output was verilied.

output

count of 'a' in list: 2

the topic steps to 2 att 17 was all the and

The state of the second of the second of the second

#### 26/1/21 Program-8

Aim: Python program 2 li with 2 lists of integers and check whether list are of same length, list sums are to same value and whether any value occur in both.

list 2 = [28, 4, 0, 8, 7, 18, 17]

len1 = len(list1) len2 = len(list2)

If (len1 == len2):

print ("Lists are of equal length")

else print ("Lists are of not equal length")

sum1= sum (list1)

sum 2 = sum (list2)

if (sum 1 == sum 2)

print (" sums are equal")

else.

print ("sams are not equal")

for in in list1:

Help

if i in list2:

flag=1

break

else:

flag=0

if flag==1:

print ("there are common values")

else:

print (" there are no common values")

Result: frogram has been encented and output was verified.

lists are of equal length
The sums are not equal
There are common values

lists are of equal length
The sums are not equal
There are common values

## 16/1/21 program - 89

Aim: Python program that creates a string from ar infut string whereall occurrences of birst character replaced with '\$' encept first character. [eg: onion -> oni\*n)

def func(string):

first char = string[o]

string = string .replace (first char, '\$')

string = first char + string[1:]

return string

print (fund "character"))

Result: program has been encuted and output was verified.

26

output charatter

## 26/1/21 Program -90

Fim: Python program to accept an integer n and compute n+ nn+ nnn.

Result: Program has been encuted and outfut is verified.

output Enter the integer: 7 861

# 26/1/21 Program-18/1

Aim: Python program do sort dictionary in ascending & descending order.

Import operator

d= { 3:0, 2:4, 4:1, 0:3}

print (" Before sorting:", d3)

sorteddic = sorted (d.items(), key=operator .itemgetter(1))

print ('Diction ary in ascending order by value!', sorteddic)

sorteddic = dict (sorted(d\*items(), Key=operator. #itemgetter(i), reverse = true))

sorted\_d= dict(sorted (d.items(), Ney=operator.itemgetter(1), veverse=true))

print (Dictionary in descending order by value:

'sorteddic)

Result: The program has been enecuted and output is verified.

#### output

Before sorting: {3:0, \$2:4, 4:1, 0:3}

Dictionary in ascending order by value:

[(3,0),(4,1),(2,3),(2,4)]

Dictionary in descending order by value:

{2:4,0:3,4:1,3:0}

Program - 12

Aim: Python program to create a list from another list by removing even numbers from the list.

list = [8,9,3,2]

print (" Before removal:", list)

for i in list:

if (i%2==0):

(ist. remove (i)

print(" After removal:", list)

Result: Program has been enerated and output is verified.

output

Before removal: [8,9,3,2)

After removal: [9,3]

( ( I I was been as .

3/2/21 Program-13

Aim: Python program to lind factorial of a number

num= int(input("Enter the number:"))

fact = 1

fact = '
for is in range (1, num+1):

fact = fact xi

print ("Factorial is: ", fact)

Result: Program has been enewted and outfut was verified.

output

Enter the number: 6
Factorial is: 720

3/2/21 Program: #314

Aim: Python program to print bibonaici series

def fibonacci(n):

a=0 b=1for i in range(0, n):

print (a) c=a+b

a=b b=c

fibonacci(4)

Result: Program has been encuted and output was verified.

Output 

Aim: Bython program to generate a list of love digit numbers in a given brange with all their digits even and the number is a perfect square.

import math def fun ():

for i in range (200915000):

sq.voot = int (math. sq.rt(i))

string = str(i)

n1 = int (string [0])

n2 = int (string [2])

n3 = int (string [2])

n4 = int (string [3])

if (sq.voot \* sq.voot = = i):

if((n1962==0) and (n2962==0) and (n3962==0) and (n4962==0)): print (i)

fun ()

Result: Program has been executed and output was verified

output

3/2/21 Programmo: 15 Aim: Python program to display the given pyramid with step number as accepted from usek: eg, n=4 2 4 3 6 9 4 8 12 16 Program: l= int (input ("Enter the limit:")) for i in range (1\$, l+1) for ) in range (1, i+1) temp=ixj print (temp, end=(1))

Result: The python program has been encuted and output was verified

print (" ")

output

Enter the limit:5

1242 1134 me Contest to 14.

1 2 4

3 6 9

4 8 12 16

5 10 15 20 25

3/2/21 Program no: 儘17

Aim: Python program to frint the number of characters (character frequency) in a string.

Program:

string = "python program"

for i in string:

key=d.key()
if I in key'.

d[i]= d[i]+1

else:

d[i]=1

print (d)

Result: Program has been encented and outfut was verified.

3/2/21 Program no: 儘17

Aim: Python program to frint the number of characters (character frequency) in a string.

Program:

string = "python program"

for i in string:

key=d.key()
if I in key'.

d[i]= d[i]+1

else:

d[i]=1

print (d)

Result: Program has been encented and outfut was verified.

output

をp!: 2, 'y': 1, 't': 1, 'h': 主, 'o': 2, 'n': 1, 'r': 2, 'g': 1, 'a': 1, 'm': 13

3/2/21 Program no: 18

Aim: Python program that adds 'ing' at the end of a given string. It it already prints ends with ing' then add 'ly'.

Przvam:

def func(string):

length = len (string)

if length >1:

if string [-3] == (ing):

string = string + 'l'g'

else.

string = string + 'ing'

return string

print (func ('python'))

print (func ('walking'))

Result: Program enewted and output was verified.

output pythoning walkingly

3/2/21 Program us:198

Aim: Prython program that accepts a list of words and return leight of longest word.

Program

def func (word):

l=[]

for i in word;

lappend ((len(i), i))

l. sort ()

length = 1[-1][0]

lword=1[-1][1]

print ("Longest word:", lword)

print ("Length:", length)

func (['one', 'two', 'three', 'four'])

Result: Program has been encented and outfut was verified.

3/

Doutput Longest word: three Length: 5

17.50

mires with

A 40-13[1] ( ) 53413)

3/2/121

Program no: \$20

Aim: Pytho program to generall all factors & a number

Program:

n= 140

for i in range (1, n+1):

if no/oi== 0:

print(i)

Result: Program has been encuted and output was verified

Aim: Python program that uses lands lambda function to find area of square, rectangle and triangle.

Program:

s = int (input ("enter the side of square:"))

area = lambd a: a \* a

print (area (s))

l = Int (input (" enter length:"))

b = int (input ("enter breath:"))

area = fambda l, b: lxb

print (area(l,b))

h=int(input (" Enter height of triangle:"))

b = int (in put ("Enter base of triangle; "))

area = lambda & h, b1: (1×61)/2

print (area(h, b))

Result: Brogram has been executed and outfut was verified.

Disput

enter the side of square: 4

16

enter length: 7

enter breadth: 3

21

enter height of triangle: 8

enter base of triangle: 4

14.0