Output : -Enter the value 3 Area is 28.2600

Output:

Enter the first number: 45 Ente the second number: 55 Enter the third number: 27 The largest number is 55

Date: 16-01-2021

Date: 14-01-2021 Program No: 1 Airo: Python program to find area def area (1): pc = 3.14 return pi * (r*r); num = float (triput ("Enter the value:")) puint ("Area is %6f" % area (num)); Result: The program has been executed and autput was Program No: 2 Ain: Python program to find largest among 3 numbers num = float (input ("Enter the first number: ")) num 2 = float (input (Enter the second number: ")) num3 = float (input ("Enter the third number: ")) if (nume numa) and (nums > num 3) laigest = numi elif (num2 > mum1) and (num2 > num3) largest = numa else largest = num3 print ("The largest number is", largest) Result: The program has been executed and output was reified.

Output :-Enter an integer number: 5 Square of 5 is 25

Output:

The radius of the circle: 4 The area of the circle with radius 4.0 is 50.2654

Output: -

14 Iguared is 196

20 squared is 400

13 squared is 169

8 squared is 64

6 squared in 36

2 squared is 4

Date: 16-01-2021 Program No:3

Ain: Python program to find equal of a number

num = int (injut (" Enter an integer number: "))

square = num * num

print ("Square of {num? is { square?")

Result: The program has been executed and the autjust uns verified

Date: 26/01/2021

Program No: 4

Aim: Python program to find area of circle

From math import pi

1 = float (input ("the radius of the circle:"))

print ("The area of circle"+str(1)+"is:"+str(pi+1**2)).

Result: The program has been executed and the autput was verified Date: 26-01-2021

Program No: 5

Am: Python program to find square of n

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

for n in list:

Square = n x n

print (n, squared is, square)

Result: The program has been executed and the oluput was verified

Output:
lyiven strung:

Hello: How are you

The vowels present in the string

{'u', 'a', 'e', 'o'}

Output:

{'python':1, 'is':1, 'a':1, 'very':1, 'versatile':1, 'language':1}

Date: 26-01-2021

Program No: 6

Aim: Python program to find vowels in a string

String A = "Hello... How are you"

print ("Jiven string: \n; String A)

Vowels = "Aa Ea I i Oo Uu"

rese = set (I each for each in string A if each in rowels)

print ('The vowels present in the string: \n', res)

Result: The program has been executed and the autput was verified

Date: 26-01-2021

Program No: 7

Aim: Python program to count words in a sentence

def word = count (str):

counts = dict ()

words = str. white

def word_count (str):

counts = dict c)

words = str. sphite

for word is words:

'f word is counts:

counts [word] += 1

else

counts [word] = 1

return counts

print (word_count ("Rython is a very versatile language"))

Result: The program executed and the autput was resified.

Count of a in the list is:5

Output:

both list have equal length

Date: 26-01-2021 Program No: 8 dim: Python program to count a in a list a = ['anjali', 'reenu', 'gretta', 'aamy'] ster= ('. join(a)) Count = 0 for i in star: if i == 'a': count = count +1 print ("Count of a in the list is: " + str (count)) Result: The program has been executed and the output was verified. Date: 26-01-2021 Program No: 9 Aim: Python program to check the length of list list 1 = [1,2,3,4,5,6] list 2 = [9,8,7,6,3,5] len: = len (lists) len 2 = len (listz)

Result: The mogram has executed and the output was verified.

print ('both list have equal length')

print ('both list doesn't have equal length')

if len == len 2:

Output:

both list does not have equal sum

Output:

There are common elements

Date: 26 - 01 - 2021 Program No: 10

Aim: Python program to check the sum of list

list 1 = [9, 4, 3, 7, 2]

list 2 = [3, 4, 5, 8, 6]

totali = sum (liti)

total 2 = sum (list2)

if total == total 2:

truit ('both list have equal run')

else:

print ('both list does not have equal surs')

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

Date: 26-01- 2021

Program No: 11

Ain: Python program to check the common elements in the list

list 1 = [2, 3, 7, 5, 6, 9]

list 2 = [8,2,3,4,5,6]

for value is list1:

if value in list2:

Common = 1

if common == 1:

paint ("There are common elements")

else:

print ("No elements are common")

Result: The program has executed and the autput was verified.

Date: 27 - 01 - 2021 Program No: 12 Output: Ain: Python program to replace a character onisn def change-char (stri): Char = STAI [0] stri = stri. replace (char, '\$') stri = char + stri [1:] return stri print (change-char ('onion')) Result: The program has been executed and the autput was verified Date: 27 - 01 - 2021 autput: Program No:13 ny thop Aim: Python program to exchange the first and last letter in · a string def change_string (stri): return Stri [-1:] + Stri[:-] + Stri [:] print (change-string ('python')) Result: The program has been executed and the autput was verified.

Output :-

Mane

{'d': 3, 'e': 2, 'l': 6, 'g': 5}

Output:

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

Dictionary in ascending order by value: [(4,0),(0,1),(1,2),(2,3),(3,4)]

Dictionary in descending order by value: {3:4,2:3,1:2,0:1,4:0}

Date: 27-01-2021 Program No. 14 Aim: Python mogram to marge 2 dictionaries def Merge (dict 1, dict2): return (dict 2. update (dixt1)) dict = { 1:6, 9:5} dict 2 = {d':3, 'e':2} print (Merge (dict1, dict2)) print (dicts) Result: The program has been executed and the autput was Date: 27-01-2021 Program No: 15 Dim: Python program to ascent and descent dictionary impart operator d= {0:1, 2:3, 4:0, 3:4, 1:2} puint ('original dictionary:' . d) sorted_d = sorted (d. iten (), key = operator. itenzetter (1)) truint ('Dictionary in ascending order by value:', sorted-d) sorted-d = dict (sorted (d items), key=greator.itemgetter(i), reverse = True)) paint (Dictionary in descending order by value: 'souted-d)

Result: The magram has been executed and the autjust

was verified

```
Date: 27-01-2021
                                                               Program No: 16
                                                                Airs: Python program to remove even number from the list
Output:
[10, 13, 26, 29, 38, 50]
 list after removing even number:
                                                                 list = [10, 13, 26, 29, 38, 50]
                                                                 print (list)
 [13, 29]
                                                                  for i in list:
                                                                    4(i%2 == 0):
                                                                        list. remove (i)
                                                                  point (" list after removing even numbers: ")
                                                                  print (list)
                                                                Result: The program has been executed and the output
                                                                        was verified.
                                                         Date: 27-01-2021
                                                                Program No: 17
  Output:
                                                                 Aim: Python program to find ged of number
   GCD of 144 and 12 is 12
                                                                  def gcd (a,b):
                                                                        if (b==0):
                                                                            return a
                                                                        return gcd (b, a 26)
                                                                   a = 144
                                                                   if (gcd (a, b)):
                                                                       fuint ('GCD of', a, 'and', b, 'is', gcd (a,b))
                                                                       print ('not found')
                                                                 Result: The peogram has been executed and the output
```

was verified

Output:

Enter a number:5

The factorial of 5 is 120

Pack: 03-02-2021

Program No: 18

Aim: Python program to find factorial of a number

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

factorial=1

if num < 0:
 print ("soury, factorial does not exist for negative numbers)

elif num==0:
 print ("The factorial of 0 is 1")

else:
 for i is range (1, num+1):
 factorial = factorial *i
 print ("The factorial of ", num, "is ", factorial)

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

```
Output:

Enter the number of terms:5

Fibonacci sequence:

2
3
```

```
Program No: 19

Aim: Python program to kind fibonacci review of N terms

def recur. fibo(n):

'f n<=1:

return n

else

return (recur. fibo(n-1) + recur. fibo(n-2))

nterms = int (input ("Enter the number of terms: "))

if nterms <=0:

print ("Please enter a paretire integer")

else:

nint ("Fibonacci sequence:")

for i in range (nterms):

print (recur. fibo(i))

Result: The program has been executed and the autput
```

was relified.

Output: Streaming streamingly

```
Pate:03-02-2021

Program No: 20

Aim: Python program to perform string function

def add_string(stri):
    length = len(stri)
    if length >1:
        if stri[-3:] == 'ing':
            stri += 'ing'
            return stri
        print (add_string('stream'))
    print (add_string('stream'))

Result: The program has been executed and the autput was resifted.
```