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16/10/1/2021

Program No. I

Sim: - Python Brogram to find area

Program

def area (a):

 $P_i = 3.14$

return Pix(axa)

nom = float (input (menter the value for:"))
print ("Area is % of ob", % area (nom))

Result

The program has been executed and the output was rerified

Desput

enter the value bor 3

Area is 28.26000

```
161 101 12021
```

Program No. 2

Ann: Rython Program to find largest amoung three numbers.

Program

num! = float (input ("enter the birst number"))
num 2 = float (input ("enter the second number"))
num 3 = float (input ("enter the third number"))

If (num 1 > num 2) and (num 1 > num 3):

largest = num 1

If (numz>numi) and (numz>num3): largest=numz

else.

lagest = num3

Print ("the largest number is", largest)

Resulf

The program has been executed and the output was verified.

Owkent

enter the birst number: 7

ender the second number: 4

enter the third number: 8

The largest number is 8

Program No. 3

Rim: Python program to find square of a number Program

digit = int (input ("enter am integer number"))

sq = digit * digit

print ("square of {digit} is {sq?"})

Result

The program has been executed and the output was verified

Output

Enler an integer number: 4 Square of 4 is 16

• 1

Program No. 4

Program - Rython Program to find and of circle

Program

From math import pi

a=float (input ("the radius of circle"))

print ("The area of the circle is" + str (pixaxx))

Result

The program has been executed and the bulput was resified.

Owlput

The sea of the circle is 50.2654

No. 1 The second second

Program No. 5

Program: Rython program to bind square of n

Program a = [14,20,13,8,6,2]for n in a: $sq. = n \times n$ print (n,"squaredis", sq.)

Result

The program has been executed and
the output was verified

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

C. St. St. St.

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frogram No. 6 Jim: Python program to find vowels in string Program

str="Hellow How are You" print ("Criven string", str)

vowels = "Aa Ee Ii Oo Uu"

out = set ([each for each in str if each in vowels])

print ("The vowels present in the string: "out)

Result

The program lies been executed and the output was reribied.

Owlput

Given string:

Hello thow are You

The vowels present in the string: {u', a', e', o'}

26 20/01/2021 Program No. 7 Aim: Python program to count words in sontence Program det word count (str): (ounts = dict () words = str.split() for word in words. if word in counts: counts [word] += 1 else counts [word]=1 return counts Print (word_count ("Every person has a responsibility towards the society he lives))

Recult

The program has been executed and the output was reribied

Carlend

S'whon': 1, 'you'! 2, 'change': 2, 'the': 2,

(quality': 2, 'of': 2, 'your': 2, thinking': 1,

'life': 1, 'sometimes': 1, 'instantly': 1}

149

26/01/2021 frogram No. 8 program to went a in a list Asm: Rytheon Program a = ["antony, "ram, "vohan", "scaria"] str1 = (' '. join (a)) (ount=0 for i in stri: id i = a count = count +1

print (" count of a in the list is" + sh (count))

Result

The program has been executed and the output was resified

Output

Count of a in the list: 5

1 37

9

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26/01/2021
Brogram No. 9
Aim: Pytheon program to check the length of lists
  list 1 = [10,10,11,12,12,13,14,16,15,16,12]
  list 2 = [16,12,13,14,15,16,10,11,12,10,12]
  len 1 = len (list1)
  len 2 = len(list2)
   |f| (len1 == len2)
        print ('both list have equel length')
    else:
       print ('both list doesn't have equal longth')
```

Result

The program has been executed and the output was verified.

Endput

both list have equal length

26/01/2021 Trogram No. 10 ism: Python program to check the sum of Virgiam lists Dest 1 = [10, 10, 11, 12, 12, 13, 14, 18, 15, 16, 12] [ist2 = [16, 12, 13, 14, 15, 16, 10, 11, 12, 10, 12] total 1 = Sum (list 1) total 2 = Sum (list2) 1f total 1 = = total 2: print ('both list have equal sum') llse!
print ('both list doesn't have equal sum')

Result:

The program has been executed and the output was verified.

Output both list

both list have equal sum

(1+illing)

b v

(see) so her

(in the last was equal in 196)

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)

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27/01/2021
Program No. 11
Simi Python program to check the common
     elements in the lists.
Program
  list 1 = [10,10,11,12,12,13,14,16,15,16,12]
  list 2 = [10,10,11,12,12,16,14,16,15,19,12]
    for value in list1:
         if (value in list2:
           (ommon=1
         If common == 1:
            print ("there are common elements")
            print ('no common elements')
 Result
    The program has been executed and the
```

output was verified.

Output

there are common elements

1 . 1 . 1 . 1 . 1

= "

```
Program No.12

Bim: Python program to replace a character

Program

def change_char (stri):

Char = stri[0]
```

def change_ehar (str1):

char = str1[o]

str1 = str1. replace (char, '\$')

str1 = char + str I[1:]

print (change_char('refresh'))

Result

The program has been executed and the output was reribited.

Output

ref sesh

Program No. 13

(dim: Rython program to exclange the first and last letter in a string hogram

def change-string (str1):

return str1[-1:]tstr1[1:-1]tstr1[:1]

print (change-string ('pineapple'))

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

Output

eineapplp

and the second

in the second of the second of

.

Program No.14

Aim: Python program to merge 2 dictionaries

Program

def Merge (dict1, dict2):

refurn (dict2: update(dict1))

dict1 = ['a':10, 'b':8].

dict 2 = \(\frac{1}{2}\); \(\frac{1}{2}\

Result

The program has been executed and the output was verified.

Output it and we let {'d':5, 'c':2, 'a:10, 5':8} [it when start it is a graduit] and the same of th

the second of th

27/01/2021 Program No.15 Aim. Python program to ascend and descend dictionary Program import operator d= {1:2,3:4,4:3,2:1,0:0} print ('original dictionary: ', d) Sorted-d = sorted (d. items(), Key=operator itemsettex()) print ('Dictionary in ascending order by value: sorted d) Sorted_d = dict (sorted (ditems (), Key=operator. itemgettes(i), reverse=Irio)) Print ('Dictionary in descending order by value: , sorted-d) Result The program has been executed and the output was reribied

Owlput Original dictionary: {1:2,3:4,4:3,2:1,0:0} Dictionary in ascending order by value: [(0,0),(2,1),(1,2),(4,3),(3,4)]Dictionary in descending order by value: {3:4,4:3,1:2,2:1,0:0}

27/01/2021 Program No. 16 Simi Python program to remove even numbers from the list Program list = [11, 22, 33, 44, 55, 66, 77, 88, 99] print (list) Son i in list: if (i%2==0) list remove (i) Print ("the list after removing:", list) Result

Result

The program has been executed and
the output was verified

Output [11,22,33,44,55,66,77,88,99] the list after removing: [11,33,55,77,99]

27/01/2021 Program No. 17 Aim: Rython program to bind gid of number def gcd (9,6)1 7 , 7 1 if (b==0):reform a redurn gcd (b, a %b) 9=45 b = 65 if (gcd(q,b)): print ('6CD of', a, and', b, 'is', gcd(a,b)) print ('not bound') Result The program has been executed and

the output was revisited.

Output

600 of 45 and 65 is 5

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to the second se

A 2 A

(1) go rerect to 1

mes with the second of the second

03/02/2021 Program No. 18 Aim: Python program to bind backerial of a number num = int (input ("enter a number:")) factorial=1 if wumzo: print ("sorry, factorial does not exist Sor negative number") elit num==0: print ("The Lactoral of o is 1") for (i in range (1, nom+1); factorial = factorial+i print ("The Lactoral of," num, "is", Lactorial) Result The program has been exembed and the output was verified

Output.

Enter a number: 5
The Lactoral of 5 is 120

1

Program No. 19 03/02/2021 Aim: Bython program to find Libonaci sequence det recor-libo(n): if [nz=1]; reform n redurn (recur_Libo(n-1)+reur-Sibo(n-2)) nterms = int (input ("How many terms?")) if nterms (=0: print ("please enter a posidire indeges") else paint ("Fibonacci sequence:") for i in range (nterms);
print (recur_Sibo(i)) Result The program has been executed and the output was verilied.

Output How many terms? 4 Fibonacci sequence: 1 . 5 · 1 · · · · · · · · 1 July Charles and Johnson

A series of the series of the

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Program No. 20
                                   03/02/2021
Aim: Python program to perform string
      bundson
   def add_slring(stri):
         length = len (str)
      if length >1:
            if str [ [-3: ] = "ing";
            str1+=1/14,
           else;
            Sdrl+= ling?
           redurn stal
```

print (add-string ('do'))
print (add-string ('according'))

Result

the program has been executed and

Output

doing accordingly

in the state of th

numbers = [1,2,3,4,5,2,5]Sum = sum (numbers) print (sum)

Result

The program has been executed and the output was revited

Output 22 (the) purchase (the); (1400) main de Be stalled the think