

PYTHON

ROUGH

RECORD

1. Write a program in python to find the area of a circle.

Python code:

```
import math  
r = float(input("Enter the radius of the circle"))  
area = math.pi * r ** 2  
print("The area of circle is : ", area)
```

Output:

Enter the radius of the circle: 5

The area of the circle is : 78.54.

2. Write a program in python to find the largest among the three numbers.

Python code:

```
num1 = float(input("Enter first number:"))
num2 = float(input("Enter second number:"))
num3 = float(input("Enter third number:"))
```

```
if (num1 > num2) and (num1 > num3):
```

```
    largest = num1
```

```
elif (num2 > num3) and (num2 > num1):
```

```
    largest = num2
```

```
else:
```

```
    largest = num3
```

```
Printl("The largest number is ", largest)
```

Output:

Enter first number : 5

Enter second number : 8

Enter third number : 3

The largest number is 8.0

3 Write a program in python to find the square of a number

Python Code:

```
digit = int(input("Enter an integer number:"))
```

```
square = digit**2
```

```
Print(f"square of {digit} is {square}")
```

Output:

Enter an integer number: 10  
Square of 10 is 100.

4 Write a program in python to count the words in a sentence.

Python Code:

```
str1 = input("please enter your own string :")  
total = 1
```

```
for i in range(len(str1)):
```

```
    if (str1[i] == ' ' or str1 == '\n' or str1 == '\t'):  
        total = total + 1
```

```
print("Total number of lettersWords in this string =",  
      total).
```

Output:

Please enter your own string:

My name is Vinay Thimmam

Total number of words in this string = 5

5 Write a program in python to check the length of a ~~string~~ list.

Python code:

```
list_a = ["Hello", 2, 15, "World", 34]
```

```
m = len(list_a)
```

```
Print("Number of elements in the list:", n)
```

Output :

Number of element on the list : 5

6 Write a program in python to check the sum of a list.

Python code:

```
list1 = [11, 5, 17, 18, 23]
```

```
total = sum(list1)
```

```
Print("Sum of all the elements in the given  
list is : ", total)
```

Output:

Sum of elements in give list = 74

7 Write a program in python to replace character  
in a string

Python code:

```
str1 = input("Please enter a string :")  
ch = input("Please enter the character to be  
replaced :")  
newch = input("Please enter the new character :")  
  
str2 = str1.replace(ch,newch)  
  
print ("\\n Original string : ", str1)  
print ("\\n Modified string : ", str2)
```

Output:

Please enter a string : Computer Programming

Please enter the character to  
be replaced : Programming

Please enter the new character : Language

Original string : Computer Programming

Modified string : Computer Language

8

Python program to find gcd of a number,

Python code:

```
def compute_gcd(x,y):
```

```
    if x > y:
```

```
        smaller = y
```

```
    else:
```

```
        smaller = x
```

```
    for i in range(1,smaller+1):
```

```
        if ((x % i == 0) and (y % i == 0)):
```

```
            gcd = i
```

```
    return gcd
```

```
num1 = int(input("enter the first number:"))
```

```
num2 = int(input("enter the second number:"))
```

```
print ("The GCD is," ,compute_gcd(num1,num2))
```

Output:

enter the first number: 5

enter the second number: 35.

The GCD is 5

• Write a python program to find the factorial of a number.

Python code:

```
num = int(input("Enter the number to calculate the factorial:"))
```

```
factorial = 1
```

```
if num < 0:
```

```
    print("Sorry, factorial does not exist for negative numbers")
```

```
elif num == 0:
```

```
    print("The factorial of 0 is 1")
```

```
else:
```

```
    for i in range(1, num+1):
```

```
        factorial = factorial * i
```

```
    print("The factorial of", num, "is", factorial)
```

Output:

enter the number to find factorial: 7

The factorial of 7 is 5040

enter the ~~number~~ to find factorial: -7

~~This~~ Sorry, factorial does not exist for negative numbers

10 Write a program in python to find fibonacci series.

Python Code:

```
n = int(input("How many terms?"))
```

```
n1, n2 = 0, 1
```

```
count = 0
```

```
if n <= 0:
```

```
    print("please enter a positive integer")
```

```
elif n == 1:
```

```
    print("Fibonacci sequence upto", n, ":")
```

```
    print(n1)
```

```
else:
```

```
    print("Fibonacci sequence:")
```

```
    while count < n:
```

```
        print(n1)
```

```
        nth = n1 + n2
```

```
n1 = n2
```

```
n2 = nth
```

```
count += 1.
```

Output:

How many terms? -5

Please enter a positive integer

How many terms? 5

Fibonacci Sequence:

0

1

1

2

3

11 Write a python program to find the vowels in a string.

Python code:

```
def vowel_count(str):
```

```
    count = 0
```

```
    vowel = "aeiouAEIOU"
```

```
    for alphabet in vowel:
```

```
        count = count + 1
```

```
    print("No. of vowels:", count)
```

```
str = str(input("Enter the string"))
```

```
vowel_count(str)
```

OR.

```
string = input("Enter string:")
```

```
vowels = 0
```

```
for i in string:
```

```
    if (i == 'a' or i == 'e' or i == 'i' or i == 'o' or  
        i == 'u' or i == 'A' or i == 'E' or i == 'O' or  
        i == 'U'):
```

```
        vowels = vowels + 1
```

```
print("Number of vowels are:")
```

```
print(vowels)
```

Output:

Enter string : Vimal

Number of vowels are : 2

12. Write a python program to count a letter 'o' in a list

Python code:

```
list1 = ['a', 'e', 'i', 'o', 'u', 'i', 'c']
```

```
Count = list1.count('i')
```

```
Print ("The count of i is:", count)
```

```
Count = list1.count('p')
```

```
Print ("The count of p is:", count)
```

```
str1 = input("Enter the string: ")
```

```
count = 0
```

```
for i in str1:  
    if i == 'a':  
        count = count + 1
```

```
print ("Count of a is:", count)
```

Output:

enter the ~~string~~<sup>list</sup>: aaa a hai a

Count of a is: 6.

Q. Write a python program to check the common element in two sets.

Python code:

```
def commm_member(a, b):
    a_set = set(a)
    b_set = set(b)

    if a_set & b_set:
        print(a_set & b_set)
    else:
        print("No Commm element")

a = input("enter first set")
b = input("enter second set")
commm_member(a, b)
```

Output:

enter first set: 1, 5 6.

enter second set: 1 6 7

{1, 6}

14 Write a python program to merge two dictionaries.

Python code:-

```
def merge(dict1, dict2):  
    return dict2.update(dict1))
```

```
dict1 = {'a': 10, 'b': 8}.
```

```
dict2 = {'d': 6, 'c': 4}.
```

```
print(merge(dict1, dict2))
```

```
Print(merge)
```

Output:

{'d': 6, 'c': 4, 'a': 10, 'b': 8}

15 Write a python program to print ascend and descend a dictionary.

### Python Code:

```
import operator
d = {1: 2, 3: 4, 4: 3, 2: 1, 0: 0}
print('Original dictionary:', d)
sorted_d = sorted(d.items(),
                  key=operator.itemgetter(1))
print('Dictionary in ascending order:', sorted_d)

sorted_d = sorted(d.items(),
                  key=operator.itemgetter(1),
                  reverse=True)
print('Dictionary in descending order:', sorted_d)
```

Output:

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

Dictionary in ascending order :

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

Dictionary in descending order :

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

16 Write a python program to exchange the first and last letter in a string.

Python Code:

```
def swap_string(str):  
    if len(str) <= 1:  
        return str  
    mid = str[1:len(str)-1]  
    return str[len(str)-1] + mid + str[0]
```

```
Print(swap_string('Pythm'))  
Print(swap_string('Hello'))  
Print(swap_string('G'))  
Print(swap_string('Vimal')).
```

## Output:

mythicP

cellH

G

limav

the "mythicP" function is being  
called by both "G" & "limav".

(1) mythicP is called by G

G calls mythicP from its own function

it's called from "limav" as well.

it's called from "limav" as well.

and it's also generated when mythicP is

called from "limav".

17 Write a program in python to find square of n numbers in a list.

Python Code

```
list1 = [1, 2, 3, 4, 5]
for i in range(len(list1))
    list1[i] = list1[i]**2
print(list1)
```

Output:

[121, 144, 169, 196, 225]

18 Write a python program to print string functions.

### Python Code:

```
str1 = input("enter a string:")
```

```
Print ("Uppercase:", str1.upper())
```

```
Print ("Lower Case:", str1.lower())
```

```
Print ("Swap Case:", str1.swapcase())
```

```
Print ("islower:", str1.islower())
```

## Output:

enter a string : My Name is Vimal

Upper Case : MY NAME IS VIMAL

Lower Case : my name is vimal

Swap Case : my NAME IS vIMAL

islower : False.

Date: \_\_\_\_\_

Write a python program to generate Fibonacci series of N terms.

Python Code:

$n = \text{int}(\text{input}("How many terms?"))$

$n_1, n_2 = 0, 1$

Count = 0

if  $n <= 0$ :

    print("Please enter a +ve integer")

elif  $n == 1$ :

    print("Fibonacci sequence upto:", n, ":")

    print(n)

else:

    print("Fibonacci sequence:")

    while count < n:

        print(n)

$n^{th} = n_1 + n_2$

$n_2 = n^{th}$

        Count += 1.

22 Aim: To find the sum of all items in a list.

Python Code:

```
a = [4, 5, 8, 2, 1, 9]
```

```
b = sum(a)
```

```
print("Sum of list elements is:", b)
```

Result: The program was successfully executed and the ~~result~~<sup>Output</sup> has obtained.

Output:

Sum of list elements is : 29.

23 Aim: Generate a list of 4-digit numbers in a given range with all their digits even and the number a perfect square.

Python Code:

for i in range(1000, 10000, 1):

    for j in range(32, 100, 1):

        if i == j\*j:

            string = str(i)

            if int(string[0]) % 2 == 0 and  
 int(string[1]) % 2 == 0 and int(string[2]) % 2 == 0  
 and int(string[3]) % 2 == 0:

                print(i)

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

Output :

4624

6084

6400

8464.

24 Aim: Display the given pyramid with step number accepted from user.  
Eg: N=4.

1

2 4

3 6 9

4 8 12 16

: :

### Program Code:

```
lines = int(input("Enter the no of lines :"))
```

```
i = 1
```

```
j = 1
```

```
while i <= lines:
```

```
    j = 1
```

```
    while j <= i:
```

```
        temp = i*j
```

```
        print(temp, end = ' ', flush = True)
```

```
        print(" ", end = ' ', flush = True)
```

```
        j = j + 1
```

```
    print(" ")
```

```
    i = i + 1;
```

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

Output:

Enter the no. of lines : 4

1

2 4

3 6 9

4 8 12 16

(i) static variable

(ii) class

Aim: Count the number of character (character frequency) in a string.

Python Code:

```
string = input("enter the string :")
Count = 0
for i in range(0, len(string)):
    if (string[i] != ""):
        Count = Count + 1
print("Total no of characters in the
      string: " str(Count))
```

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

Output:

Enter the string: Vimal Thomson

The total no of characters in  
the string: 12.

26 Ans: Add 'ing' at the end of a given string. If it already ends with 'ing', then add 'ly'

Python code:

```
string = input("Enter a string:")
if len(string) < 3:
    print(string)
elif string[-3:] == 'ing':
    print(string + 'ly')
else:
    print(string + 'ing')
```

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

Output:

Enter a string: Try

Tryimg

Enter a string: Tryimg

Tryimngly

27 Aim: Accept a list of words and return length of the longest word.

Python Code:

```
def longestLength(a):
    maxl = len(a[0])
    temp = a[0]
```

```
for i in a:
    if (len(i) > maxl):
        maxl = len(i)
```

```
temp = i
```

print("The word with the longest length is:", temp, "and the length is:", maxl)

a = ["one", "Two", "Three", "Four"].

longestLength(a)

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

Output:

The word with the longest length  
is: thud and the length is: 5

Q8 Aim: Construct the following pattern using nested loop.

```

*
**
* *
* * *
* * * *
* * * * *
* * * * * *
* * * * * * *
* * * * * * * *
* * * * * * * * *
* * * * * * * * * *

```

Python Code:

```

rows = int(input("Enter the no of rows:"))
for i in range(0, rows):
    for j in range(0, i+1):
        print("*", end="")
    print("\r")

```

```

for i in range(rows, 0, -1):
    for j in range(0, i-1):
        print("*", end="")
    print("\r")

```

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

Output:

Enter the no of rows: 5

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

\* \* \* \* \*

\* \* \* \*

\* \*

\*

29 Aim: Generate all factors of a number.

Python code:

```
N = int(input("Enter a number :"))
print ("The factors of {} are {}".format(N))
for i in range (1,N+1):
    if N % i == 0:
        print(i)
```

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

Output :

Enter a number : 100

The factors of 100 are,

1

2

4

5

10

20

25

50

100

30 Aim: Write lambda functions to find area of square, rectangle and triangle.

Python code:

```

l = int(input("length:"))
b = int(input("breadth:"))
h = int(input("height:"))

x = lambda a : a*a
print("Area of square is:", (x(l)))

y = lambda a,b : a*b
print("Area of rectangle is:", (y(l,b)))

z = lambda a,b : 1/2*(a*b)
print("Area of triangle is:", (z(b,h)))
    
```

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

Output

length : 5

breadth = 10

height = 10

Area of square is : 25

Area of rectangle is : 50

Area of Parallelogram is : 50.0

∴ we can say mapping is  
different and all 3 types are

3. Aim: Work with build in packages

import datetime

x = datetime.datetime.now()  
print(x)

x = datetime.datetime.now()  
print(x.year)  
print(x.strftime("%A"))

Result: The program has been executed  
and the outcome has been verified.

Output :

2021-03-28 04:13:33,347291

2021

Sunday

32 Aim: Create a package `mathgraphics` with modules `rectangle`, `circle` and sub package `3D-graphics` with modules `cuboid` and `sphere`. Provide methods to find area and perimeter of different respective figures in each module. Write program that finds area and perimeter of figures by different importing statements.

Python code:

```

from graphics.rectangle import *
from graphics.circle import *
from graphics.dgraphics.sphere import *
from graphics.dgraphics.cuboid import *

print("Rectangle")
l = int(input("enter length:"))
b = int(input("enter breadth:"))
print("Area of Rectangle:", rarea(l, b))
print("Perimeter of Rectangle:", speriometer(l, b))

print("Circle")
r = int(input("enter a radius:"))
print("Area of circle:", larea(r))
print("Circumference of circle:", cperimeter(r))

print("Sphere")
print("Area of Sphere:")
r = int(input("enter a radius:"))
print("Area of sphere:", saarea(r))

```

```
print("perimeter of sphere : ", speimetre(r))
print("Cuboid")
```

```
l = int(input("enter a length:"))
w = int(input("enter a width:"))
```

```
h = int(input("enter a height:"))
print("area of cuboid : ", area(l,w,h))
```

```
print("perimeter of cuboid : ", cuprimeter(l,w,h))
```

### # inscribe Circle

```
from math import pi
```

```
def carea(r):
```

```
    return (pi * r * r)
```

```
def speimetre(r):
```

```
    return (2 * pi * r)
```

### # rectangle

```
def rarea(l,b):
```

```
    return (l * b)
```

```
def rperimeter(l,b):
```

```
    return (2 * (l + b))
```

### # Sphere

```
from math import pi
```

```
def sareal(r):
```

```
    return (4 * pi * r * r)
```

```
def speimetre(r):
```

```
    return ((4 / 3) * pi * r * r * r)
```

### # Cuboid

```
def careal(l,w,h):
```

```
    return ((2 * l * w) + (2 * l * h) + (2 * w * h))
```

dy experiments (l, w, h)  
return ( $4 * (l + w + h)$ )

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

## Output:

Rectangle

Enter length: 5

Enter Breadth: 10

Area of rectangle: 50

Perimeter of rectangle: 30

Circle

Enter radius of circle: 4

Area of circle: 50.26548245

Perimeter of circle: 25.132741228

Sphere

Enter radius of Sphere: 3

Area of sphere: 113.09733552923255

Perimeter of sphere: 113.09733552923255

Cuboid:

Enter length: 7

Enter width: 12

Enter height: 8

Area of cuboid: 472.

Perimeter of cuboid: 108.

33

Aim: Create Rectangle class with attributes length and breadth and methods to find area and perimeter. Compare two rectangle objects by their area.

Python code:

class Rectangle:

```
def __init__(self, length, breadth):
    self.length = length
    self.breadth = breadth
```

def area(self):

```
    return self.length * self.breadth
```

def peri(self):

```
    return 2 * (self.breadth + self.length)
```

a = int(input("Enter length of 1<sup>st</sup> rectangle:"))

b = int(input("Enter breadth of 1<sup>st</sup> rectangle:"))

c = int(input("Enter length of 2<sup>nd</sup> rectangle:"))

d = int(input("Enter breadth of 2<sup>nd</sup> rectangle:"))

obj = Rectangle(a, b)

obj1 = Rectangle(c, d)

print("area of 1<sup>st</sup> rectangle:", obj.area())

print("area of 2<sup>nd</sup> rectangle:", obj1.area())

print("Perimeter of 1<sup>st</sup> rectangle:", obj.peri())

print("Perimeter of 2<sup>nd</sup> rectangle:", obj1.peri())

```
if obj.area() == obj1.area():
    print("Equal")
else:
    print("Not Equal")
```

Result: The program was executed  
and the result was verified.

Output:

Enter length of 1<sup>st</sup> rectangle : 5

Enter breadth of 1<sup>st</sup> rectangle : 10

Enter length of 2<sup>nd</sup> rectangle : 7

Enter breadth of 2<sup>nd</sup> rectangle : 10.

Area of 1<sup>st</sup> rectangle : 50.

Area of 2<sup>nd</sup> rectangle : 70.

Perimeter of 1<sup>st</sup> rectangle : 30.

Perimeter of 2<sup>nd</sup> rectangle is : 34.

Not Equal.

34

Aim: Create a Bank account with numbers amount, name, type of account and balance. Write constructor and methods to deposit at the bank and withdraw an amount from the bank.

Python code:

Class Bank Account:

def \_\_init\_\_(self):

self.balance = 0

def deposit(self):

amount = float(input("Enter amount to be deposited:"))

self.balance += amount

print("Amount deposited:", amount)

def withdraw(self):

amount = float(input("Enter amount to be withdrawn:"))

if self.balance >= amount:

self.balance -= amount

print("You withdrew:", amount)

else:

print("Insufficient balance")

```
obj display(sclf):
```

```
    cout << "Pr. Net available Balance:" <<  
    sclf.balance)
```

```
s = Bank Account()
```

```
s.deposit()
```

```
s.withdraw()
```

```
s.display()
```

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

Output : ..

Enter amount to be deposited : 900

Amount Deposited : 900.0

Enter amount to be Withdrawn : 400

You withdrew : 400.0

Net available balance : 500.0

35 Aim: Create a class rectangle with private attributes length and width. Overload '<' to compare the area of two rectangles.

Python Code:

Class A :

- length = 0
- width = 0
- area = 0

```
def __init__(self, l, w):
    self.length = l
    self.width = w
```

```
def area(self):
```

```
    self.area = self.length * self.width
```

```
def gt(self, other):
```

```
    if (self.area > other.area):
        return True
```

```
    else:
```

```
        return False
```

```
rect1 = A(3, 4)
```

```
rect1.area()
```

```
rect2 = A(6, 5)
```

```
rect2.area()
```

```
if
```

if credit > reeds:

    print("Multi is greater than reeds")

else:

    print("Multi is greater than reeds")

Result: The program was executed  
and the output was reviewed.

Output:

met2 is greater than met1

36

Ques: Create a class time with private attributes hour, minute, second. Overload '+' operator to find the sum of times.

Python code:

class Time:

    def \_\_init\_\_(self, h, m, s):

        self.hour = h

        self.minute = m

        self.seconds = s

    def time(self):

        if self.seconds >= 60:

            self.seconds -= 60

            self.minute += 1

        if self.minute >= 60:

            self.minute -= 60

            self.hour += 1

    def add\_\_(self, other):

        self.hour = self.hour + other.hour

        self.minute = self.minute + other.minute

        self.seconds = self.seconds + other.seconds

        return (self.hour, self.minute,

            self.seconds)

```
obj1 = Time(3, 25, 45)
obj1.time()
obj2 = Time(6, 30, 5)
obj2.time()
print("Sum of two time:")
print(obj1 + obj2)
```

Result: The program was executed and the output was obtained.

Output:

Sum of two time:

(9, 55, 50)

Q3) Aim: Create a class publisher. Derive class book from publisher with attributes title and author. Derive class Python from Book attributes price and no\_of\_pages. Write a program that displays information about a python book. Use base class constructor invocation and method overriding.

### Python Code

class Publisher:

    def \_\_init\_\_(self, pubname):

        self.pubname = pubname

    def display(self):

        print("Publisher Name:", self.pubname)

class Book(Publisher):

    def \_\_init\_\_(self, pubname, title, author):

        Publisher.\_\_init\_\_(self, pubname)

        self.title = title

        self.author = author

    def display(self):

        print("Title", self.title)

        print("Author", self.author)

class Python(Book):

    def \_\_init\_\_(self, pubname, author, price, no\_of\_pages):

Book . . . . .  
Book . . . . .  
self . . . . .  
self . . . . .

def display(self):

    print("Title:", self.title)

    print("Author:", self.author)

    print("Price:", self.price)

    print("Number of pages:", self.no\_of\_pages)

s1 = Python("ak books", "Taming Python By Programming",  
              "Jeewa Jose", 200, 219)

s1 . display()

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

Output:

Title : Taming Python by Programming

Author : Iceva Jose

Price : 200.

Number of pages : 219.

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Aim: Write a python program to read a file line by line and store it into a list.

Python Code:

```
str1 = "Welcome to Python programming"
      "\n"
      "python"
```

```
fw = open("Afile.txt", "w")
fw.write(str1)
fw.close()
```

```
fr = open("Afile.txt", "r")
str2 = fr.readlines()
for i in str2:
    print(i)
```

Result: The program was executed and has been successfully verified.

Output:

Welcome to Python Programming

Python

Aim: Python program to copy odd lines of one file to another

Python code:-

```
fo = open("file1.txt", 'r')
str1 = fo.readlines()
fo.close()
fo = open("file2.txt", 'w')
n = 0;
for i in str1:
    n = n + 1
    if n % 2 != 0:
        fo.write(i)
fo.close()
fo = open("file2.txt", 'r')
str2 = fo.readlines()
ptr(str2)
```

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

Output:

['haaaaaaaaa']

40

Aim: Write a python program to read each row from a given CSV file and print a list of strings.

Python code -

```
import csv
with open('movie1.csv', 'w', newline='') as file:
    writer = csv.writer(file)
    writer.writerow(['SN', 'Movie', 'Rating'])
    writer.writerow([1, "Lord of Rings", 5])
    writer.writerow([2, "Harry Potter", 6])
with open('movie1.csv') as csvfile:
    data = csv.reader(csvfile)
    for row in data:
        print(','.join(row))
```

Result: The above program was executed and the result was obtained.

Output:

SN , Movie , Rating

- 1 , Lord of the rings , 5.
- 2 , Harry Potter , 6.

Page No.:  
Date:

Aims : Write a python program to read specific columns of a given CSV file and print the content of the columns.

## Python Code

```
import csv
with open("fruit1.csv", "w", newline="") as file:
    write = csv.writer(file)
    write.writerow(["SL-No", "fruits", "rate"])
    write.writerow(["1", "apple", "60"])
    write.writerow(["2", "orange", "55"])
    write.writerow(["3", "grapes", "70"])
    write.writerow(["4", "banana", "85"])
```

```
with open("fruit1.csv", "r") as file:
    data = csv.reader(file)
    print("Contents on column 'fruits':")
    print(*data)
    for r in data:
        print(r[1])
```

Result: The above program was successfully executed and the result verified.

Output:

Contents in the column 'fruits':

fruits

apple

orange

grapes

banana

Page No :  
Date :

Aim : Write a python program to write a dictionary to a csv file. After writing the csv file read the csv file and display the content.

Python code:

```
import csv  
f = open("fruits.csv", "w")  
writer = csv.DictWriter(f, fieldnames=["fruit", "count"])  
writer.writeheader()  
writer.writerow({"fruit": "Apple", "count": "1"})  
writer.writerow({"fruit": "Banana", "count": "2"})  
f.close()  
c = 0  
  
f = open("fruits.csv")  
reader = csv.DictReader(f)  
for row in reader:  
    if c == 0:  
        print(f"\n{row['fruit']} {row['count']}")  
    else:  
        print(f"\n{row['fruit']} {row['count']}")  
    c += 1  
f.close()
```

Result: The program was successfully executed and the result was verified.

Output:

fruit count

Apple, 1

fruit count

Banana, 2