

Program No: 1

Date: 14/01/2021

• Aim: Python Program to find Area

```
def area(r):
```

```
    pi = 3.14
```

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

```
num = float(input("Enter the Value for:"))
```

```
Print ("Area is % 6f" % area(num));
```

• Result:

The Program has been executed and the output is Verified

out put

enter the Value for: 3

Area is 28.26000.

Program : 2

Date : 16/01/2021

- Aim: Python program to find largest among 3 Numbers.

number 1 = float(input("enter the first Number:"))

number 2 = float(input("enter the second number:"))

number 3 = float(input("enter the third number:"))

If (number 1 > number 2) and (number 1 > number 3)

largest = Number 1.

else :

largest = number 3

Print ("the largest Number is " largest)

Result:

The program has been executed and
output is Verified

output.

enter the first Number : 2

enter the Second number : 4

enter the third number : 5

the largest number is : 5

Program : 3

Date: 16/01/2021

Aim: Python Program to find square of a Number

```
digit = int(input("enter an integer number"))
```

```
square = digit * digit
```

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

Result:

The Program has been executed and
output is Viewed.

output

enter the Integer Number: 4

Square of 4 is 16.

Program 4:

Date - 26/01/2021

Aim: Python Program to find area of circle

From math import pi

r = float(input("The radius of the circle:"))

print("The area of the circle with

radius" + str(r) + " is: " + str(pi *
r * r))

Result:

The program has been executed
and output is verified.

Output:

Input the radius of the Circle:
The area of the Circle with radius

~~40 is~~

40 is:

56.2654

Program 5:

Date: 26/01/2021

Aim: Python Program to find square of n

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

For n in list 1;

Square = $n \times n$

Print (n, square is 'square')

Result:

The program has been executed
Sett and output is Vertical

Output:

14 squared is 96.

26 squared is 400

13 squared is 169

8 squared is 64

6 squared is 36

2 squared is 4.

Program 6

Date 26/01/2021

Aim: Python Program to find Vowels in a string.

String A = "Hello.. how are you"

Print ("Given String: ", String A)

Vowels = "AaEeIiOoUu"

res = set([each for each in String A if each in Vowels])

Print ("The Vowels present in the string: ", res)

Result:

The program has been executed and
output is verified.

Output:

Carlos Sleg:

Hello... how are you.

The Vowels present in the string:

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

Program No: 4

Date = 26/01/2021

Aim: Python Program to count words in a sentence.

```
def word-count (str):
```

```
    count = dict()
```

```
    word = str.split()
```

```
    for word in word:
```

```
        if word in count:
```

```
            count[word] += 1
```

```
    else:
```

```
        count[word] = 1
```

```
    return count
```

Don't (word-count) when you change the quality of your thinking, you change the quality of your life sometimes instantly

Result:

The program has been executed
and output is Vatted.

Output:

{ 'when': 1, 'you': 2, 'change': 2, 'the': 2,
'quality': 2, 'of': 2, 'your': 2, 'thinking':
1, 'life': 1, 'some times': 1, 'instantly':
1 }.

Program no: 8

Date: 26/01/2021

Aim: Python Program to count ~~a~~ in a list

a = ['Lento', 'Seban', 'Rohan', 'Joseph']

str1 = ("".join(a))

count = 0

for i in str1:

if i == 'a':

count = count + 1

Print ("Count of a in the list is:" + str(count))

Result:

The Program has been executed
and o/p is Value

output:

count of a in the list is 3

Program No: 10

Date: 26/0/2020

Dim: Python Program to check the sum of list.

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]

total 1 = sum (list 1)

total 2 = sum (list 2)

If total 1 == total 2:

print ('both list have equal sum')

else:

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

Result:

The Program has been executed and
O/P is Verified.

Output

both list have equal sum.

Program No: 11

Date 27/01/2021.

Ans: Python Program to check the common element in the list.

list1 = [10, 10, 11, 12, 14, 13, 14, 16, 15, 12,]

list2 = [10, 16, 11, 12, 12, 16, 14, 18, 19, 12].

For Value in list1;

if Value in list2:

common += 1

if common == 2;

Print ("there are common element")

else Print ("no common elements")

Result:

The Program has been executed and
o/p is as follows.

Output

There are common elements.

Program No: 12.

Date = 27/01/2021

Aim: Python Program to replace a character

```
def change-char (str1):
```

```
    char = str1 [0]
```

```
    str1 = str1.replace (char, 's')
```

```
    str1 = char + str1 [1:]
```

```
    print (change-char ('retrofit'))
```

Result:

The Program has been executed and
O/P is Verified.

Output

~~Refers~~ - Ref & res.

Program No: 13

Date: 27/01/2021.

Qn: Write a Program to exchange the first and last letter in a string

```
def change_string(str1):
```

```
    return str1[-1] + str1[1:-1] + str1[0]
```

```
Print (change_string('pineapple'))
```

Result:

The Poojeon has been executed
and 0/1 is the result.

output

cinapple

Program 14

Date : 23/01/2021

Aim: Python Program to merge 2 dictionaries

```
def merge(dict1, dict2):
```

```
    return (dict2.update(dict1))
```

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

```
dict2 = {'d': 5, 'c': 2}
```

```
Print (merge(dict1, dict2))
```

```
Print (dict2)
```

Result:

The Program has been executed
and o/p is: Verified.

Output

None

{ 'd': 5, 'c': d, 'a': 10, 'b': 8 }

Program 15

Date : 21/01/2021

Aim: Python Program to ascend and descend dictionary.

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 by
Value sorted-d)

sorted-d = dict(sorted(d.items(), key = Operator.
Itemgetter(1), reverse = True))

Print : ('Dictionary in descending order by
Value: ', sorted-d).

Result:

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

Output:

Original dictionary : {1:2, 3:4, 4:3, 2:7,
0:0}

Dictionary in ascending order by
Value

{3:4, 4:3, 1:2, 2:7, 0:0}

Program No: 6

date: 27/01/2021

Ans: Python program to remove even numbers from the list

list = [11, 22, 23, 33, 44, 55, 66, 77, 88, 99]

print(list)

for i in list:

if (i % 2 == 0)

list.remove(i)

print("list after removing:", list)

1
Result:

The program has been executed and
the o/p was checked

output

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

list after removing: [11, 33, 55, 77, 99]

program no: 17

Date: 27/01/2021

aim: python program to find gcd of
Numbers

```
def gcd(a, b):
```

```
    if (b == 0):
```

```
        return a
```

```
    return gcd(b, a % b)
```

```
a = 45
```

```
b = 65
```

```
if (gcd(a, b)):
```

```
    print('GCD of', a, 'and', b, 'is', gcd(a,
```

```
else
```

```
    print('Not Jansell')
```

Result:

The program has been executed and
the output is as follows.

Output

Area of 45 and 65 is 5

program no: 8

Date: 03/02/2021

Qn: Python Program to find factorial of a Number.

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

```
factorial = 1
```

```
if num < 0:
```

```
    print("sorry, factorial does not exist for  
    Negative Number")
```

```
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)
```

Result:

The program has been executed and
o/p is Verified.

output

enter a Number: 5

The factorial of 5 is 120.

Program No: 19

Date: 03/02/2021

Dim: Python Program to find Fibonacci sequence
def recur_fibo(n):

if n <= 1:

return n

else

return (recur_fibo(n-1) + recur_fibo(n-2))

nterms = int(input("How many terms?"))

if nterms <= 0:

print("Please enter a positive integer")

else

print("Fibonacci sequence:")

for i in range(nterms):

print(recur_fibo(i))

Result:

The program has been executed and
the output was as follows.

output

How many terms? 4

Fibonacci Sequence:

0

1

1

2

Program No: 20

Date 03/02/2021

Dir: Python Program to Perform String
Function

```
def add_string(str1):
```

```
    length = len(str1)
```

```
    if length > 2:
```

```
        if str1[-3:] == "ing":
```

```
            str1 += 'ly'
```

```
    else:
```

```
        str1 += 'ing'
```

```
    return str1
```

```
Print Add string ('d')
```

```
Print Add-string ('aaready') .
```

Result:

The program has been executed and
o/p is: Veeheel.

Output

doing
autoexecing /x.