

Program No: 1

AIM: Python program to find area of circle.

```
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 was verified.

OUTPUT

Enter the value for: 3
Area is 28.26000

PROGRAM NO:2

AIM:

Write a python program to find the square entered by the user.

```
def sq():
```

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

```
    x = x * x
```

```
    print("square: ", x)
```

RESULT

The program has been executed and the output was verified.

OUTPUT

Enter a number of 4 digit: 16
Square: 16

$$4 \times 4 = 16$$

$$(4 \times 4) + 4 = 16$$

((4 * 4) + 4) * 4 = 16
(((4 * 4) + 4) * 4) + 4 = 16

between and and morphing
between and and morphing

PROGRAM NO:3

AIM: Python program to find largest among three numbers.

```
n1=float(input("Enter the 1st number:"))
n2=float(input("Enter the 2nd number:"))
n3=float(input("Enter the 3rd number:"))

if (n1>n2) and (n1>n3):
    print("Largest is ", n1)
elif (n2>n3):
    print("Largest is ", n2)
else:
    print("Largest is ", n3)
```

RESULT

The program has been executed and the output was verified

OUTPUT

Enter the 1st number : 2

Enter the 2nd number : 4

Enter the 3rd number : 5

Largest is 5

$$x * x = x$$

(x * : assume * is +)

has numbers and and comparing info
half less than sum of digits add

PROGRAM NO : 4

INTRODUCTION

AIM:

python program to find area
square of n

```
def sq():
    n = int(input("Enter the total number"))
    list = []
    for i in range(n):
        val = int(input("Enter a number : "))
        list.append(val)
    for i in list:
        print("square of {} is {}".format(i, i*i))
```

RESULT

The program has been executed
and the output was verified.

OUTPUT

Enter the total number: 4

Enter a number: 5

Enter a number: 3

Enter a number: 2

Enter a number: 1

Square of 5 is 25

Square of 3 is 9

Square of 2 is 4

Square of 1 is 1

total is 50

total is 50

total is 50

total is 50

using nested loop output will
be like now square of 5 is 25

PROGRAM NO:5

AIM

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

```
def vow():
    word = input("Enter a word")
    vow = "aeiou AEIOU"
    v1 = [each for each in word if
          each in vow]
    print(v1)
```

RESULT

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

OUTPUT

RISHABH MANDAL

enter a word : ashish

[a'ɪʃɪʃ]

English meaning of the word : (1) p2 Job

((("ashish" bedeutet sch"nig") deqnt) fnt = o

meaning of the word : (2) p3 Job

meaning of the word : (3) p3 Job

((("ashish" bedeutet sch"nig") deqnt) fnt = o)

(o) kriegen, fñhren

((("ashish" bedeutet sch"nig") deqnt) fnt = o)

((("ashish" bedeutet sch"nig") deqnt) fnt = o)

business and and company mit

bestellen kann zugleich als Paus

PROGRAM NO: 6

AIM:

python program to display future leap years from current year to a final year entered by user.

```
x = int(input("Enter a year to check leap year"))
if (x % 400 == 0) or ((x % 4 and x % 100 != 0)):
    print(x, "is a leap year")
else:
    print(x, "is not a leap year")
```

RESULT

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

OUTPUT

Enter a year to check leap year be not 2021
2021 is leap year.

(i) know P file + 1 input = know

"00131 nois" = know

If know ai does not done 7 = IV

[know] ai does

(IV) failing

knows and not ongoing int.

hitting and 2nd trying int has

PROGRAM NO:7

TOPPER

AIM

Python program to count the occurrences of each word in a line of text

```
def count():
    txt = input("Enter a string")
    count = 1
    for i in txt:
        if (i == " "):
            count += 1
    print("The count of word is", count)
```

RESULT

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

OUTPUT

Enter a string how are you

The count of words is: 3

of easy transitions over steep areas
and for barrier zones

longest time at room temperature) total = x
 $(0-1,000 \text{ K}) \times \ln(1 + x) \approx x$ ($\delta = -0.00001^\circ \text{C}$)
("cool" and $\approx 0^\circ \text{C}$, x italics)

"Coy got a box in his trunk

PROGRAM NO : 8AIM

Python program from input string
where all occurrence of first character
replaced with '\$' except first character

```
def string():
    string = input("Enter a string : ")
    char = string[0]
    string = string.replace(char, '$')
    print(char + string[1:])
```

RESULT

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

OUTPUT

Enter a string: onion

origin and incorporate footer

and go with a bit more mass to the

? (I know lots)

(o parte o mês) Ingrá = fixo

~~10~~ 11

first in no

$$\left(\begin{array}{cc} x & y \\ z & w \end{array} \right) = \frac{5}{3} \left(\begin{array}{cc} 1 & 0 \\ 0 & 1 \end{array} \right)$$

L = 1 tanas

(tow) ^t u draw fo. tow(s strip) tail

RUSSIA

but nothing could beat anything else.

the first odd year coming up

PROGRAM NO - 9

TUTORIAL

AIM

python program to create a string where first and last characters exchanged.

```
def reverse(getstr):  
    return getstr[::-1]
```

RESULT

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

OUTPUT

reverse ("python")

'nohtyP' most common output

reverse [-1:-1] most common

: (print 1)

([print 0 : -1]) print = print

[0] print = ends

([0: -1]) print = print

([0:-1]) print = ends | printing

basics and print mapping int
basics and print strings with know

PROGRAM NO :- 10AIM

python program to accept an integer n and compute $n+nn+nnn$

```
def nsum():
    n = int(input("Enter a number:"))
    a = n
    b = n + n
    c = n + n + n
    nsum = 0
    nsum = int(a) + int(b) + int(c)
    print(nsum)
```

RESULT

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

OUTPUT

Enter a number : 5

: (top) 523456789

[E-1] top answer

PROGRAM No: 11

AIM

python programs to merge two dictionaries

```
def merge():
```

```
    x = {'a': 1, 'b': 2}
```

```
    y = {'b': 10, 'c': 11}
```

```
    z = x.update(y)
```

```
    print(z)
```

```
    print(x)
```

RESULT

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

OUTPUT

None

{ 'a': 1, 'b': 20, 'c': 11 }

addition of numbers

: (sum of job

((a + b) + c) + d = a + b + c + d

$$a+b+d$$

$$a+b+c = d$$

$$a+a+a = d$$

$$a+m+n = d$$

$$(a+m)+n+(d-n) = m+n+d$$

(constant) taking

RESULTS

hence add and compare it

thus add and see which one is true

PROGRAM NO: 12

AIM

python program to find gcd of two numbers

```
def gcd():
    a = int(input("Enter first number"))
    b = int(input("Enter second number"))
    while b != 0:
        r = a % b
        a = b
        b = r
    print("The GCD of the numbers is", a)
```

RESULT

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

OUTPUT

Enter first number 40

Enter second number 50

The GCD of the numbers is 10

: (0) sum - 1 do

Factor 1 : $x^2 + 3x + 2 = 0$

Factor 2 : $x^2 + 2x + 1 = 0$

(x+1)(x+2) = 0

(x) twin

(x) twin

Two factors add up to zero

Halfway add and bring it

PROGRAM NO: 13

TUTORIAL

AIM

python program to from a list of integers, create a list removing even numbers

```
def list1():
    list1 = []
    odd = []
    num = int(input("Total number of elements:"))
    for i in range(num):
        list1.append(int(input("Enter a number")))
    odd = [each for each in list1 if each % 2 == 0]
    print(odd)
```

RESULT

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

OUTPUT

Total number of elements : 5

Enter a number : 1

Enter a number : 2

Enter a number : 3

Enter a number : 4

Enter a number : 5

[1, 3, 5]

d = p

d = s

r = d

(a) if medium set p (and INT) + temp

PROGRAM NO: 14AIM

python program to find the factorial of a number

```
def fac(n):
    fact = 1
    if n == 0:
        print(n, "!", "=", fact)
    for i in range(1, n+1):
        fact = i * fact
    print("n !")
    print(n, "!", "=", fact)
n = int("Enter a number : ")
fac(n)
```

RESULT

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

OUTPUT

Enter a number : 4

$$4! = 24$$

: 0.000 sec

□ = 1.000

□ = 0.000

: count space of 3 no.

: ("address of ans"){expr} with changes + 1 fall

for loop if fall in case of ans] = bba
(bba) saving

RESULT

ans becomes ans and memory unit
will be ans and ans output at

PROGRAM NO : 15

AIM

Python program to generate Fibonacci series of N terms.

```
def fib(n):
    a, b = 0, 1
    while a < n:
        print(a)
        a, b = b, a+b
n = int(input("ENTER a number :"))
fib(n)
```

RESULT

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

OUTPUT

Enter the number : 5

0

1

1

2

43

(a) sqf. b.

B = 3.142

: 0 = 0.14

(sqf. = 1" a) find

: (Circles) area of is 0.14

Sqf. R = Sqf

+ missing

(sqf. = 1" a) find

((* : admiral's 3.142) find = 1

(a) last

between and and overlap set
between and and within set and

PROGRAM NO: 16AIM

Python program to display the given pyramid with step number accepted from user.

```
x = int(input("Enter a number"))
j, i = 1, 1
for i in range(1, x+1):
    p = i
    for j in range(1, i+1)
        p = i*j
        print(p, end=" ", flush=True)
        print(" ", end=" ")
    print("\n")
```

RESULT
@VAPR27

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

OUTPUT

Enter a number 5

1,

2, 4,

3, 6, 9,

4, 8, 12, 16

5, 10, 15, 20, 25

PROGRAM NO:17AIM

Add 'ing' at the end of given string.
If it already ends with 'ing', Then add 'ly'

```
def adstr(s1):
    length = len(s1)
    if length > 2:
        if s1[-3:] == 'ing':
            s1 += 'ly'
        else:
            s1 += 'ing'
    return s1
```

```
print(adstr('happy'))
print(adstr('playing'))
```

RESULT

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

OUTPUT

happening

playfully

("admire a film") taking photo = x

: (admire a film) taking photo = x

(take a photo of it) taking photo = q

[q] = q

(watch a film, movie, etc) taking

(watch a movie, etc) taking

(watch) taking

प्रज्ञान
प्रसवा

and between and among up
between and two. at

PROGRAM 18AIM

Python program to generate all factors of a number.

```
def fact(n):
    print("The factors of", n, "are:")
    for i in range(1, n+1):
        if n % i == 0:
            print(i)
```

n=100

fact(n)

RESULT

The program has been executed and output was verified.

OUTPUT

the factors of 100 are:

1

2

4

5

10

20

25

50

100

((program) starts) doing
((program) does) thing

Program 19

AIM

HTML Lambda functions to find area of square, rectangle and triangle.

$s = \text{int}(\text{input}("Length of square:"))$

$l = \text{int}(\text{input}("Length of rectangle:"))$

$b = \text{int}(\text{input}("Length of one the breadth of rectangle:"))$

$b = \text{int}(\text{input}("Enter base of triangle:"))$

$d = \text{int}(\text{input}("Enter height of triangle:"))$

$x = \lambda s: s * s$

$y = \lambda l, b: l * b$

$t = 0.5$

$z = \lambda h, d, t: h * d * t$

$\text{print}("Area of Square is:", x(s))$

$\text{print}("Area of rectangle is:", y(l, b))$

$\text{print}("Area of triangle is:", z(h, d, t))$

RESULT

The program has been executed and the output was verified.

INPUT

length of square : 2

length of rectangle : 2

Enter the breadth of rectangle : 2

Enter base of triangle : 3

Enter height of triangle : 2

Area of square is 4

Area of rectangle is 4

Area of triangle is 3.0

Program 20

AIM

Python programs to perform the sum of given items

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

RESULT

The program has been executed and the output was verified.

OUTPUT

22

half of zirconium obtained XMA
done it and obtained sample to area

(C) sample to obtain weight tri = 3

(E) sample to obtain weight tri = 1

(L) sample to obtain weight tri = 1

((O) reaction for standard

((P) sample to obtain weight tri = 4

((Q) sample to obtain weight tri = 4

2x3 = 6 abduant = X

2x1 = 2 residual = Y

2.0 = Z

standard deviation = S

((R) x 2 sample to area) tri = 1

((S) 1/2 x 2 sample to area) tri = 1

((T) 1/2 x 2 sample to area) tri = 1

bottom used and removing with
distilled now trying with best