

* find LCM & GCD of given numbers

* Find the area of a circle, perimeter of a circle

* write a python program to convert binary no. to decimal no. and decimal no. to binary number

* write a python program to convert degree celsius to fahrenheit & fahrenheit to degree celsius

* write a python program to find square, root, square root of given no.

$$5=2, 2=4 \quad 3^3=64 \quad \sqrt{4}=2$$

* write a simple python program to print n natural no.'s

* end up with conditional - 4 space

* Python is dynamically typed language.

* whenever inside double code is string & no. are integers

* message, variable, name

Relation operator \rightarrow ends with code.

>
<
>=
<=

write a python to find whether a person is eligible for driving or not

if Age >= 18 True or False

if inside if is called

write a python program to find greatest of 3 no

$$n_1 = 10 \quad n_2 = 5 \quad n_3 = 12$$

write the python program to find whether the entered year is leap year or not

write a python program to find the smallest of 3 no.'s

write a python program to do add, sub, mul, div, floor, mod of given two no.'s

write a python program to print a grade of a student

90-100 \rightarrow S

80-90 \rightarrow A

70-80 \rightarrow B

60-70 \rightarrow C

50-60 \rightarrow D

$\leq 50 \rightarrow$ F

for a key work
 \rightarrow special names.

$=$ is a variable

in = membership function

write a python program to check whether given no is even or odd

while loop

```
i = 1
while i < 6;
print(i)
i += 1
```

a = 10.5

b = 12.5

sample output is a = 12.5
& b = 10.5

1) Write a python program to find LCM & sum of
given sample input

A = 24, B = 16

sample output

Lcm = 48, GCD = 8

```
=> n1 = int(input("Enter n1: "))
    n2 = int(input("Enter n2: "))
    tn1 = n1
    tn2 = n2
    while n1 % n2 != 0:
        r = n1 % n2
        n1 = n2
        n2 = r
    gcd = n2
    print("GCD", gcd)
    lcm = (tn1 * tn2 / gcd)
    print("LCM", lcm)
```

2. Write a python program to find the binary equivalent of a decimal number

Sample input $A=10$

Sample output : Binary 100

```
decimal_number = int(input("enter a decimal number"))
```

```
binary_number = bin(decimal_number)
```

```
print("Binary equivalent:", binary_number)
```

3. Write a python program to find the area & circumference of circle

Sample input $R=10$

Sample output : Area = $\pi * R^2$

Circumference = $2 * \pi * R$

```
import math
```

```
def calculate_circle(radius):
```

```
# Calculate area
```

```
area = math.pi * radius ** 2
```

```
# Calculate circumference
```

```
circumference = 2 * math.pi * radius
```

```
return area, circumference
```

```
# Input radius
```

```
radius = float(input("Enter the radius of circle: "))
```


calculate area & circumference

circle - area, circle circumference = calculate - circle (radius)

print the results

print ("Area of the circle", circle - area)

print ("circumference of the circle", circle - circumference)

4. Write python program to find the square cube, square root of a no.

Sample input R=10

sample output : Square No & No

Cube = No * No * No.

Sq-root = sqrt (number)

```
def calculate - values (number):
```

```
# calculate square
```

```
square - root = number ** 0.5
```

```
# calculate cube root
```

```
cube - root = number ** (1/3)
```

```
return square, cube, square-root, cube-root
```

```
# input number
```

```
number = float (input ("Enter a number: "))
```

```
# calculate values
```

```
square, cube, square-root, cube-root =
```

```
calculate - values (number)
```

print the results

print ("Square of the number", square)

print ("Cube of the number", cube)

print ("Square root of the number:", square
- root)

print ("Cube root of the number", cube
- root)