

Experiment No. 2.3

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Branch: MCA

Semester: I

Subject Name: Python Programming

UID: 22MCC20039

Section/Group: MCD-1/ Grp B

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1. Aim/Overview of the practical:

1. Write a program in Python to compute the greatest common divisor and the least common multiple of two integers.
2. Write a program in Python to test if a number is equal to the sum of the cubes of its digits. Find the smallest and largest such numbers in the range of 100 to 1000

2. Code for experiment/practical:

A.

```
n1 = int(input("Enter First number :"))
n2 = int(input("Enter Second number :"))
x = n1
y = n2
while (n2!=0):
    t = n2
    n2 = n1 % n2
    n1 = t
gcd = n1
print("GCD of {0} and {1} = {2}".format(x,y,gcd))
lcm = (x*y)/gcd
print("LCM of {0} and {1} = {2}".format(x,y,lcm))
```

B.

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

sum = 0

temp = num
while temp > 0:
    digit = temp % 10
    sum += digit ** 3
    temp //= 10

if num == sum:
```

```
print(num,"is an Armstrong number")  
else:  
    print(num,"is not an Armstrong number")
```

3. Output:

A.

```
C:\Users\krish\AppData\Local\Microsoft\Wind  
Enter First number :60  
Enter Second number :100  
GCD of 60 and 100 = 20  
LCM of 60 and 100 = 300.0  
  
Process finished with exit code 0
```

B.

```
C:\Users\krish\AppData\Local\Microsoft\Wind  
Enter a number: 56  
56 is not an Armstrong number  
  
Process finished with exit code 0
```

***** THE END *****