**3. Write a python program to check whether a given number is Armstrong number or not**

**Aim:** The aim of this program is to find whether a given input number id Armstrong number or not

**Description:** An Armstrong number in a given number base b is a number that is the sum of its own digits each raised to the power of the number of digits. To put it simply, if I have a 3-digit number then each of the digits is raised to the power of three and added to obtain a number. If the number obtained equals the original number then, we call that Armstrong number. The unique property related to the Armstrong numbers is that it can belong to any base in the number system.

For example, in the decimal number system, 153 is an Armstrong number.

1^3+5^3+3^3=153

**Code Implementation:**

num = int(input("Enter the num value : "))

sum = 0

temp = num

while temp > 0:

digit = temp % 10

sum += digit \*\* 3

temp //= 10

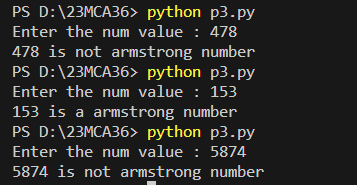
if num == sum:

print(num,"is a armstrong number")

else:

print(num,"is not armstrong number")

**Output:**

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