**ARMSTRONG NUMBER CHECK**

**Using For loop**

n=int(input(Enter a number))

digits=str(n)

power=len(digits)

sum\_val=0

for d in digits:

sum\_val +=int(d) \*\*power

if sum\_val==n:

print(“Armstrong”)

else:

print(“not Armstrong”)

output:Enter a number: 370

digits: ‘3’, ‘7’, ‘0’

power:3

**2nd method**

For num in range(1,1001):

Temp=num

Length=len(str(num))

Sum\_val=0

While temp > 0:

rem temp % 10

sum\_val+=rem \*\* length

temp //=10

if sum\_val==num:

print(num,end= “”)

output:

1 2 3 4 5 6 7 8 9 153 370 407