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#lakshmi bhavani jntu assignment 1
import math
num=int(input("enter a number:"))

sum=0
temp=num
count=len(str(num))
while temp>0:
    rem=temp%10
    sum=sum+pow(rem,count)
    temp=temp//10
if sum==num:
    print('the given number is a armstrong number')
else:
    print("the given number is not a armstrong number")
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#to check whether a nummber is a fibanocci or not
n=int(input('enter a number:'))
a=0
b=1
sum=a+b
if n==0 or n==1:
    print('yes the number in fibanoci series')

while sum<n:
    a=b
    b=sum
    sum=a+b
if sum==n:
    print('yes the number in fibanocci series')
else:
    print('no')
```