1. Python program to check Armstrong Number ?

HINT : 153 = 1*1*1 + 5*5*5 + 3*3*3 // 153 is an Armstrong Number.

```
num = int(input("Enter a number : "))
sum = 0
n = len(str(num))
temp = num
while temp > 0 :
    digit = temp % 10
    sum += digit ** n
    temp //= 10.
if num == sum :
    print(num, " is an Armstrong number")
else :
    print(num, " is not an Armstrong number")
```

2. Python program for how to check if a given number is Fibonacci number?

HINT: A Fibonacci sequence is the integer sequence of

0, 1, 1, 2, 3, 5, 8. . . .

The first two terms are 0 and 1

All other terms are obtained by adding the preceding two terms.

This means to say the n^{th} term is sum of $(n-1)$ th and $(n-2)$ th term.

```
n = int (input ("enter the number: "))
c = 0
a = 1
b = 1
if n==0 or n==1:
    print ("Yes")
else:
    while c<n:
        c = a+b
        b = a
        a = c
    if c==n:
        print ("Yes")
    else:
        print ("No")
```