

## # 1. AMSTRONG NUMBER#

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

## # 2. To check given sequence is Fibonacci sequence #

```
Import math
def isPerfectSquare(x):
    s = int(math.sqrt(x))
    return s*s == x
def isFibonacci(n):
    return isPerfectSquare(5*n*n + 4) or isPerfectSquare(5*n*n - 4)
for i in range(1,11):
    if (isFibonacci(i) == True):
        print(i, "is a Fibonacci number")
    else:
        print(i, "is not a Fibonacci number")
```