

### Program 1

```
# Program to check Armstrong Number

sum = 0

# Take input
num = num1 = int(input("Enter three digit Number:"))

while num > 0:
    digit = num%10
    sum += digit ** 3
    num //= 10

if sum == num1:
    print(num1, "is Armstrong Number")
else:
    print(num1, 'is not Armstrong Number')
```

### Program 2

```
# Check if given number is Fibonacci number

sum = n1 = 0

n2 = 1

# Take input
num = int(input("Enter a Number:"))

while num > sum:
    sum = n1 + n2
    n1 = n2
    n2 = sum

if sum == num:
    print(num, "is Fibonacci number")
    break

else:
    print(num, 'is not Fibonacci number')
```