

sol

```
for i in range(100):
```

```
    num = i
```

```
    result = 0
```

```
    n = len(str(i))
```

```
    while(i != 0):
```

```
        digit = i % 10
```

```
        result = result + digit**n
```

```
        i = i // 10
```

```
    if num == result:
```

```
        print(num)
```

```
    print("num is a Armstrong  
number")
```

```
else :
```

```
    print("num is not a Armstrong  
number")
```

② import + math

def perfect_square(x):

s = int(math.sqrt(x))

return s*s == x

n = int(input("Enter the numbers:"))

result1 = 5*(n*n)+4

result2 = 5*(n*n)-4

if perfect_square(result1) or perfect_square(result2)

print(n, "is fibonacci number")

else:

print(n, "is not fibonacci number")