

# PYTHON PROJECT ON FIBONACCI GENERATOR

## **What Is the Fibonacci Sequence?**

The Fibonacci sequence is a series of numbers where:

- The first two numbers are 0 and 1.
- Each next number is the sum of the previous two.

Example:

0, 1, 1, 2, 3, 5, 8, 13, 21, ...

## **✂ What Is a Generator?**

A generator is a function that uses the yield keyword instead of return. It gives back one value at a time and “remembers” where it left off.

### PYTHON CODE:

```
def fibonacci(n):  
    a, b = 0, 1  
    for _ in range(n):  
        yield a  
        a, b = b, a + b
```

### **# Use the generator**

```
num = int(input("Enter how many terms you want:  
want:"))  
print("Fibonacci sequence:")  
for number in fibonacci(num):  
    print(number, end=" ")
```

### **OUTPUT :**

```
Enter how many terms you want: 7  
Fibonacci sequence:  
0 1 1 2 3 5 8
```

