Sequence Explorer

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Details of Project:I'm implementing this project by using Python Programming Language.

Code

Sequenceexplorer.py

```
def fib(n):
  if n == 1 or n == 0:
    return n
  return fib(n-1)+fib(n-2)
n=int(input())
print(fib(n))
```

Input and Output

STDIN

```
5
```

Output:

```
5
```

Explanation: In this Program I have implemented Sequence Explorer which is nothing but n^{th} Fibonacci series by using Recursion. In the Fibonacci series the first two terms are fixed i.e., 0 and 1 and the next term will be sum of two previous terms. If n=1 or 0 it will return the same value Otherwise it will return fib(n-1)+fib(n-2).This will run repeatedly until n value equal to given value.

Conclusion:

Finally I got the desired output of **5^{th}** Fibonacci series by how, 0 1 1 2 3 5.