Sequence Explorer

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Submitted by: Kotari Ramya Sree

22kq1a6315

Details of project : *I'm implementing this project by using python programming language.*

Code:

Sequenceexplorer.py

```
def fib(n):
  if n == 0:
    return 0
  elif n == 1:
    return 1
  else:
    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 by n^{th} Fibonacci series which is nothing but n^{th} Fibonacci series by using Recursion. In the Fibonacci series the first two terms are i.e, 0 and 1 and the next terms will be sum of two previous terms. if n=1 or 0 it will the same value. otherwise it will return fib(n-1)+fib(n-2).This will be until repeatedly n value equal to given value.

Conclusion: Finally I have got desired 5 for the Fibonacci of 5^{th} term.