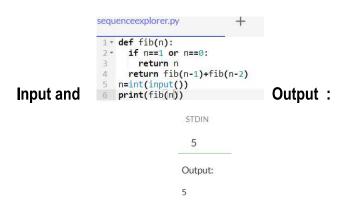# SEQUENCE EXPLORER

Date : 6 th June 2024

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Details Of Project : I am doing this project work by using Python programming language

Code :

```
sequenceexplorer.py                    +
1  def fib(n):
2    if n==1 or n==0:
3      return n
4    return fib(n-1)+fib(n-2)
5  n=int(input())
6  print(fib(n))
```

Input and

Output :

```
STDIN

  5

Output:

5
```

Explanation : In this project work I have done Sequence Explorer which is meant by printing of fibonacci number using recursion .

Here in this program first I have used a user defined function using a keyword "def" and the function name is "fib" along with that a parameter "n" in the program . If "n", is 0 or 1 it returns "n" otherwise with a function "n-1" and "n-2" it calls "fib()".

Then the input is taken from the user as "n" with a statement int(input()) and Finally it prints nth Fibonacci number by calling "fib()" with input "n".

Conclusion : Finally I have got the desired output nth fibonacci number

0 `1 1 2 3 5