





IDLE Shell 3.10.4 - C:\Users\User\AppData\Local\Programs\Python\Python310\sample.py (3.10.4)

File Edit Shell Debug Options Window Help

Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:18:41) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

```
>>> nterms = int(input("How many terms? "))
...
... # first two terms
... n1, n2 = 0, 1
... count = 0
...
... # check if the number of terms is valid
... if nterms <= 0:
...     print("Please enter a positive integer")
... # if there is only one term, return n1
... elif nterms == 1:
...     print("Fibonacci sequence upto",nterms,":")
...     print(n1)
... # generate fibonacci sequence
... else:
...     print("Fibonacci sequence:")
...     while count < nterms:
...         print(n1)
...         nth = n1 + n2
...         # update values
...         n1 = n2
...         n2 = nth
...         count += 1
>>> [DEBUG ON]
>>> [DEBUG OFF]
>>>
```

===== RESTART: D:/python.py =====

```
How many terms? 6
Fibonacci sequence:
0
1
1
2
3
5
>>>
```

