PROGRAM-15

Write a python program to find whether the given number is fibonacci or not, using function.

AIM:

To check whether the given no. is fibonacci or not.

PROGRAM CODE:

```python
import math
def isPerfectSquare(x):
    s = int(math.sqrt(x))
    return s*s == x
def isFibonacci(n):
    return isPerfectSquare(5*n*n+4) or isPerfectSquare(5*n*n-4)
num = float(input("Enter a number:"))
if isFibonacci(num) == True:
    print(num, "is a Fibonacci number")
else:
    print(num, "is not a Fibonacci number")
```

<u>Output:</u>

Enter a number: 8
8.0 is a fibonacci number