

**15\_IsFibonacci.py**

```
1  # Program - 15
2  import math
3
4  def is_perfect_square(x):
5      s = int(math.sqrt(x))
6      return s*s == x
7
8  def is_fibonacci (n):
9      return is_perfect_square(5*n*n+4) or is_perfect_square(5*n*n-4)
10
11 num = float(input("Enter a number : "))
12 if is_fibonacci(num) == True :
13     print(f"{num} is a fibonacci number.")
14 else :
15     print(f"{num} is not a fibonacci number.")
```