#Python Program for How to check if a given number is Fibonacci number?

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)

for i in range(1,11):

if (isFibonacci(i) == True):

print i,"is a Fibonacci Number"

else:

print i,"is a not Fibonacci Number "