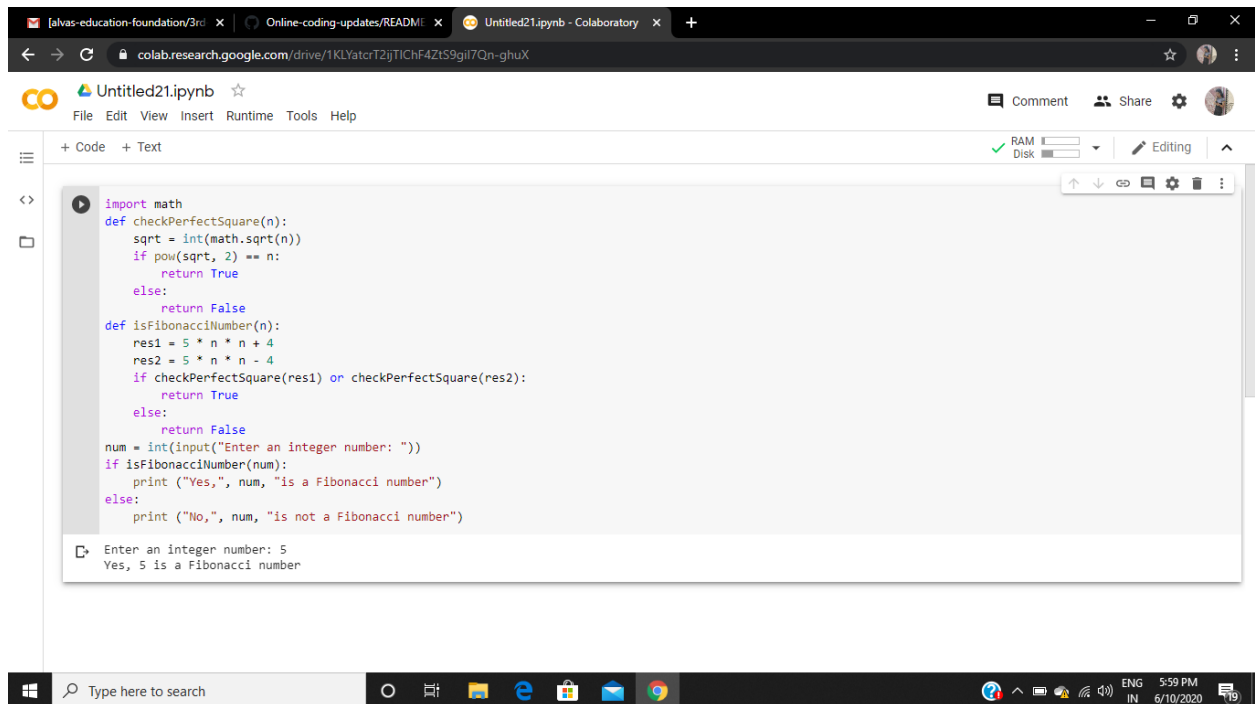


Python Program to check whether a given number is a fibonacci number or not

```
import math
def checkPerfectSquare(n):
    sqrt = int(math.sqrt(n))
    if pow(sqrt, 2) == n:
        return True
    else:
        return False
def isFibonacciNumber(n):
    res1 = 5 * n * n + 4
    res2 = 5 * n * n - 4
    if checkPerfectSquare(res1) or checkPerfectSquare(res2):
        return True
    else:
        return False
num = int(input("Enter an integer number: "))
if isFibonacciNumber(num):
    print ("Yes,", num, "is a Fibonacci number")
else:
    print ("No,", num, "is not a Fibonacci number")
```



The screenshot displays a Google Colaboratory interface. The browser tabs at the top include 'alvas-education-foundation/3rd', 'Online-coding-updates/README', and 'Untitled21.ipynb - Colaboratory'. The address bar shows the URL 'colab.research.google.com/drive/1KLYatcrT2jTlChF4ZtS9giI7Qn-ghuX'. The notebook title is 'Untitled21.ipynb'. The menu bar includes 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help'. The toolbar shows 'RAM' and 'Disk' usage, and a status bar at the bottom indicates 'ENG IN' and the date '6/10/2020'. The code editor contains the same Python code as shown in the previous block. Below the code, the output shows the user input '5' and the program's response: 'Yes, 5 is a Fibonacci number'.

```
import math
def checkPerfectSquare(n):
    sqrt = int(math.sqrt(n))
    if pow(sqrt, 2) == n:
        return True
    else:
        return False
def isFibonacciNumber(n):
    res1 = 5 * n * n + 4
    res2 = 5 * n * n - 4
    if checkPerfectSquare(res1) or checkPerfectSquare(res2):
        return True
    else:
        return False
num = int(input("Enter an integer number: "))
if isFibonacciNumber(num):
    print ("Yes,", num, "is a Fibonacci number")
else:
    print ("No,", num, "is not a Fibonacci number")
```

Enter an integer number: 5
Yes, 5 is a Fibonacci number