



# STUDENT REPORT

## DETAILS

Name

NAGARAJ Y PATIL

Roll Number

KUB23CSE090

## EXPERIMENT

Title

### MATHS TEST

Description

Alice has a mathematics test for which she is underprepared. She has to do at least one question correctly to pass the test. He decides to do a question which needs her to find the smallest prime number which is larger than a given integer  $N$ . Your task is to find and return an integer value representing the smallest prime number larger than  $N$ .

Input Format:

input1: An integer value  $N$

Output Format:

Return an integer value representing the smallest prime number larger than  $N$ .

Sample Input

6

Sample Output

7

Source Code:

```
def next_prime(N):  
    num = N + 1  
  
    while True:  
  
        is_prime = True  
        for i in range(2, int(num**0.5) + 1):  
            if num % i == 0:  
                is_prime = False  
                break  
  
        if is_prime:  
            return num  
  
        num += 1  
  
N = int(input())  
  
result = next_prime(N)  
  
print(result)
```

## RESULT

**5 / 5 Test Cases Passed | 100 %**