# STUDENT REPORT

## DETAILS

**Name**

HEMANTH KUMARA D

**Roll Number**

3BR23CD028

## 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:**

```python
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 %