6.Prime are not using recursion

#include <stdio.h>

#include <math.h>

int is\_prime(int num) {

    if (num <= 1) {

        return 0;

    } else if (num <= 3) {

        return 1;

    } else if (num % 2 == 0 || num % 3 == 0) {

        return 0;

    }

    int i = 5;

        while (i \* i <= num) {

        if (num % i == 0 || num % (i + 2) == 0) {

            return 0;         }

        i += 6; // Skip even numbers as they are not prime candidates

    }

    return 1; // Prime

}

int main() {

    int num;

    printf("Enter a positive integer: ");

    scanf("%d", &num);

    if (is\_prime(num)) {

        printf("%d is a prime number.\n", num);

    } else {

        printf("%d is not a prime number.\n", num);

    }

    return 0;

}

