4a. Program to print the Fibonacci series.

main.c

```c
#include <stdio.h>

int main() {
    int n, i;
    int first = 0, second = 1, next;

    printf("Enter the number of terms: ");
    scanf("%d", &n);

    printf("Fibonacci Series: ");

    for (i = 1; i <= n; i++) {
        printf("%d ", first);
        next = first + second;
        first = second;
        second = next;
    }

    printf("\n");
    return 0;
}
```

Output

```
Enter the number of terms: 10
Fibonacci Series: 0 1 1 2 3 5 8 13 21 34


=== Code Execution Successful ===
```

4b. Program to check whether the entered number is prime or not.

main.c

```c
#include <stdio.h>

int main() {
    int n, i, flag = 0;

    printf("Enter a number: ");
    scanf("%d", &n);

    if (n <= 1) {
        printf("%d is not a prime number.\n", n);
        return 0;
    }

    for (i = 2; i <= n / 2; i++) {
        if (n % i == 0) {
            flag = 1;
            break;
        }
    }

    if (flag == 0)
        printf("%d is a prime number.\n", n);
    else
        printf("%d is not a prime number.\n", n);

    return 0;
}
```

Output

```
Enter a number: 19
19 is a prime number.


=== Code Execution Successful ===
```