

### Program 3: Prime Number

#### Step3.c:

In this object, Input is taken from the user for the final limit till which prime number has to be calculated and it calls function prime.c which check all the number till the limit and return '1' ,if they are prime and '0' if they are not. Depending on which the output is displayed. As 1 is not considered as a prime number but a special number and hence not included in the generated prime number list.

#### Prime.c:

In this object, function is\_prime is defined which takes input as a number and check whether the number is prime or not and return appropriate value accordingly. It checks if the number is 2 first then it check if it is a multiple of 2 and then check if it is multiple of any odd number and if all this conditions are false it declares it as a prime number.

#### Prime.h:

It is the user defined header file which defines the function is\_prime.

#### Makefile:

The makefile runs this program using commands in the command line  
make  
make run