Compiling and Running the Example
C Program on UNIX

- **Get the Main Program *main.c* and the Header File *user.h*:**

    By clicking and loading them from your browser
    By copying them from the following UNIX directory:
    ```
    /project/mech410/as0b   or,
    /net/edison/edison/export/cadlib/classlib/mech410/as0b
    ```

- **Edit these Programs or Write A New Program:**
    You can compose a new program or edit an existing program using any text editor
    on UNIX. Alternatively you can use a text editor on a PC to do the editing and
    transfer the finished program to UNIX through a network link. When a word
    processor, such as *Microsoft Word*, is used, the file has to be saved using the *text*
    format.

- **Compile the Program and Link to C Library on UNIX:**
    ```
    cc -o main main.c -lm
    ```

- **Run the Program:**
    ```
    main
    ```

- **Program Output:**

    ```
    Original matrix:
        7    16    55    13    12
       12    10    52     0     7
       -2     1     2     4     9

    Multiplied by 2:
       14    32   110    26    24
       24    20   104     0    14
       -4     2     4     8    18

    Then multiplied by -1:
      -14   -32  -110   -26   -24
      -24   -20  -104     0   -14
        4    -2    -4    -8   -18
    ```