

## Examples&Exercises:

- Complete the following codes if necessary, then compile and run the code.
- Analyze the code and output.

1. Using the Terminal Interface; <http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/noecho.c> noecho.c
2. Changing Terminal Modes; <http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/rawmode.c> rawmode.c
3. Using terminfo; <http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/newgetcaps.c> newgetcaps.c
4. Illustrating ncurses Initialization and Termination; <http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/initcurs.c> initcurs.c,  
<http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/newterm.c> newterm.c. Compile with

```
$ gcc -o curses_prog curses_prog.c -lcurses
```

5. Input and Output; <http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/curschar.c> curschar.c,  
<http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/cursstr.c> cursstr.c, <http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/cursbox.c> cursbox.c,  
<http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/cursinch.c> cursinch.c, <http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/cursgstr.c> cursgstr.c,  
<http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/color.c> color.c, <http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/cursutil.c> cursutil.c,  
<http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/utlfcns.c> utlfcns.c. Compile with

```
$ gcc -c utlfcns.c  
$ gcc -o curs_prog curs_prog.c -lcurses utlfcns.o
```

6. X Window Programming; <http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/bifurcation.c> bifurcation.c. Compile with

```
$ locate libX11  
$ gcc -o bifurcation bifurcation.c -lX11 -L/usr/lib/
```

7. Study the following example program creates and displays a simple window with Qt. It doesn't do anything other than display a line of text, but it gives you an idea of the fundamental requirements of a Qt program. <http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/helloworld.cpp> helloworld.cpp  
<http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/makefile.qt> makefile
8. Study the following example program creates and displays a simple window with KDE.  
<http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/hellokde.cpp> hellokde.cpp <http://siber.cankaya.edu.tr/SystemsProgramming/cfiles/makefile.kde>  
makefile