1. Connect the Arduino and upload the blink Sketch.

   Choose Correct board and Com Port from tools menu.

   We are using the Duemilanove ATmega 328

2. Change

   Int led = 13;

   to

   #define LED 13

   Use uppercase letters for all identifers in #define statements

3. change blink rate

4. Connect Pin 13 to a resistor & LED on breadboard.

   Why do we need the resistor ?

5. Change H/W & S/W to work with Pin 8 Instead of Pin 13

6. Connect 2 more LEDS and Current limiting

resistors to pins 7 & 6. Use different colours:—

Red, yellow, green for example.

7. Write code to turn on each LED in turn to simulate a traffic light.

8. Write a C-function that accepts a LED and a duration and turns that LED on for that duration.

9. Add more LEDs (and resistors) and write code to simulate the lights in the

"Knight - rider car"