**Steps for proteus software:**

Step1: Open proteus

Step2: Click on new project

Step3: Give the project name>>Next.

Step4: Click on Create a schematic from the selected template>>Design Template (Default)>> Next

Step5: Click on Do not create a PCB layout>>Next.

Step6: Click on NO firmware project>>Next>>Finish.

Step7: Select the components from P as required and select GND and Power from TERMINAL MODE(8th Position on left side).

Step8: Create hex using Keil software and burn in microcontroller >> double click on microcontroller and select hex file which is created.

1. **LCD Interfacing with 8051.**

Components:

* AT89C51RD2 Microcontroller
* LCD (LM016L)
* Crystal Oscillator
* Capacitor (30pf-2,10uf-1)
* Resistor(8.2k-1,10k-11)
* Push Button(SPST)

1. **7 Segment Display**

Components:

* AT89C51RD2 Mircocontroller
* 7 Segment Display(7 seg-MPX1-CC)
* Crystal Oscillator
* Capacitor(30pf-2,10uf-1)
* Resistor(10k-1,100 ohm-8)
* Push Button (SPST)

1. **DC Motor**

Components:

* AT89C51RD2 Micro controller
* L293D(Motor Driver)
* DC Motor( Simple DC Motor Model)
* Crystal Oscillator
* Capacitor(30pf-2,10uf-1)
* Resistor(10k-1)
* Push Button (SPST)
* Resistor(NTSAOXR502,NTC)