ARMSIM EMBEST BOARD PLUGIN PROGRAMS

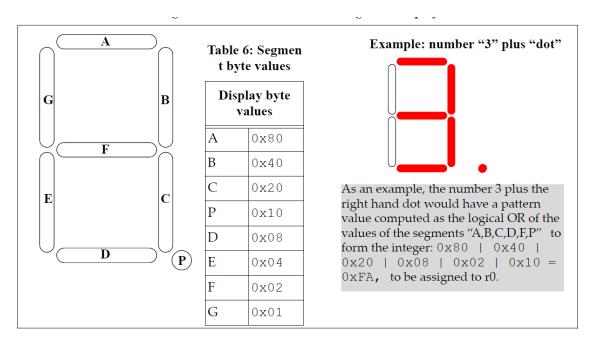
1. Write a program to light up LEDs according to the value supplied in the register R0, to the left or right or both, using Software Interrupt SWI 0x201. Lighting up of LEDs:

If R0= 1 Right LED R0=2 Left LED R0=3 Both LED

2. Write a program to display hexadecimal numbers from 0 to F and F to 0 as follows:

if left button is selected display F to 0 if right button is selected display 0 to F. Use SWI 0x200.

(The appropriate segments light up to display a number or a character. The pattern of segments to be litup is assigned to register R0 before the call to swi 0x200)



3. Write a program to display a string to scroll from Right to Left on the LCD screen from location (x,y), using software interrupt SWI 0x204.

Note:

- a. String: Ex "PESU"
- b. Store starting address of the string in the register R2.
- c. Store the position of display in the registers as follows:
 - i. R0=x
 - **ii.** R1=y
- d. Use SWI 0x206 instruction to clear the display on the LCD screen.

- Important Note: All Plug-ins have to be enabled explicitly by checking their option in the File > Preferences menu and selecting the appropriate line from within the tab labelled Plugins.
- 1) Install ARMSIM simulator
- 2) Go to File-->Preferences->Plugins and select "Embest Board Plugin"
- 3) Go to view-->PluginsUI
- 4) Run the code(File →Load-→Select the program written in notepad file with extension .s