

## **PSDL Problem Statements**

- 1) Write an Embedded C program to add array of n numbers.  
(Show the output in simulator)
  
- 2) Write an Embedded C menu driven program by using input of menu choice as a variable for :
  - i) Multiply 8 bit number by 8 bit number
  - ii) Divide 8 bit number by 8 bit number(Show the output in simulator)
  
- 3) Write an Embedded C menu driven program by using input of menu choice as a digital pin for :
  - i) Multiply 8 bit number by 8 bit number
  - ii) Divide 8 bit number by 8 bit number(Show the output in simulator)
  
- 4) Write an Embedded C program for sorting the numbers in ascending and descending order.  
(Show the output in memory section of simulator)
  
- 5) Write an Embedded C program for sorting the numbers in ascending and descending order.  
(Show the output in memory section of simulator)
  
- 6) Write an Embedded C menu driven program by using input of menu choice as a digital pin for sorting the numbers in ascending and descending order.  
(Show the output in memory section of simulator)
  
- 7) Write an Embedded C menu driven program by using input of menu choice as a variable for sorting the numbers in ascending and descending order.  
(Show the output in memory section of simulator)

8) Write an Embedded C program to interface PIC 18FXXX with LED & blinking it using specified delay.

9) Write an Embedded C program for Timer programming ISR based buzzer on/off.

10) Write an Embedded C program for External interrupt input switch press, output at relay.

11) Write an Embedded C program for Generating PWM signal for servo motor/DC motor.

12) Write an Embedded C program for PC to PC serial communication using UART.

13) Write simple program using Open source prototype platform Arduino for digital read/write using LED and switch Analog read/write using sensor and actuators.