

## **Assignment Set 2 (Assembly Language Programming)**

- **Assignments will be evaluated by the TAs.**
- **All codes must be properly documented and good code writing practice should be followed (carry marks).**
- **Copying is strictly prohibited. Any case of copying will automatically result in F for the whole course, irrespective of your performance in the other parts of the lab.**
- **Marks distribution: 25, 25, 25, 25**

### **Problem 1:**

Generate arithmetic series and write content in contiguous memory locations where data a, d, n are stored as variables.

### **Problem 2:**

Find factorial of 8-bit number.

### **Problem 3:**

Find number which appears only once in array stored in memory and rest numbers are in pairs

Ex.: 01H, 02H, 03H, 02H, 03H should give output 01H

### **Problem 4:**

Reverse 16-bit number using 8-bit operations.  
(You can manipulate only 8 bits at a time)