

## Lab-6

### Serialization of data and BCD and ASCII conversion in PIC

#### Objective:

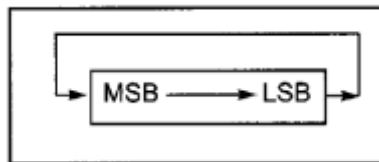
In this lab students will learn

- How to implement of serialization of data in PIC using rotate instructions.
- How to perform conversion between BCD and ASCII?

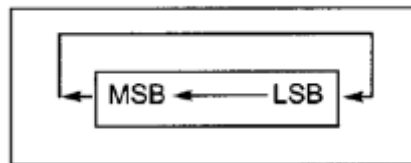
#### Theory

There are four types of rotate instructions in PIC microcontroller that are: RRCF, RRNCF, RLCF, RLNCF. This will allow the contents of file registers to rotate right or left. Two types of rotations are possible: first is without carry and the second is through carry flag of status register. Each of these instructions is shown below:

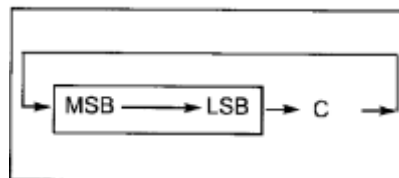
#### RRNCF



#### RLNCF



#### RRCF



#### RLCF





