## **CSE420**

## **Assignment-2**

a. **Design** an equivalent Left-recursion free and left factored grammar of the following grammar G. The set of non-terminals is { E, P } and the set of terminals is { 'a', '(', ',', ')' }.

Context-free Grammar G:

$$P \rightarrow (E) \mid a$$
  
 $E \rightarrow E, P \mid P$ 

- b. **Construct** FIRST and FOLLOW sets for the non-terminals of the resulting grammar.
- c. **Construct** LL(1) parse table for the resulting grammar.
- d. **Validate** the following syntax through predictive parsing using the constructed parse table. (a, (a, a, a))