



## **School of Computer Engineering & Technology**

### **SSC lab -Assignment No.2(Study Writeup)**

**Date of Submission: 10th -April-2022**

**Assignment Title:** Design of Pass 2 of Two Pass Assembler.

**Aim:** Design suitable data structures and implement Pass 2 of 2 Pass Assembler for pseudo machine.

**Objective:** Design suitable data structures and implement Pass 2 of 2 Pass Assembler for pseudo machine. Subset should consist of a few instructions from each category & few assembler directives.

#### **Theory:**

- 1. Design Specification of an Assembler:**  
Synthesis Phase
- 2. Design of a Two Pass Assembler:**  
Algorithm for Pass 2
- 3. Error Listing & Error Handling**

**Input:** Symbol Table, Intermediate Code.(from Pass 1 of 2 Pass Assembler)

**Output:** Machine translation (Object Program) of the Source Assemble Language program taken in Assignment No. 1

**Conclusion:**

**Platform:** JAVA