Ahsanullah University of Science and Technology

Department of Computer Science and Engineering

Examination: Online 3 Session: Fall 2022 Year/Semester: 4/1 Course No: CSE4130 Course Title: Formal Languages and Compilers Lab

Mark: 10 Time: 20 Minutes.

Set B

Suppose, a symbol table has been generated for a given C program and stored as a text file, named "symbolTable.txt" ([Sl no] [ID Name] [ID Type] [ID Scope]) and the file is given as input. Your job is to write a program that will be able to manipulate the Symbol Table to Insert a new variable at a given scope and display the updated symbol table.

Say, the content of the "symbolTable.txt" file is:

1 global x1 var 2 f1 global func 3 f1 Х var 4 f1 Z var 5 global main func 6 n1 var f1

Sample Input	Sample Output
Insert Data: test f1	The updated Symbol Table:
	1 x1 var global 2 f1 func global 3 x var f1 4 z var f1 5 test var f1 6 main func global 7 n1 var main

^{**}variables of the local scopes will be together in this case.