

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 1

Suppose, a symbol table has been generated for a given C program and stored as a text file, named “symbolTable.txt” ([SI no] [ID Name] [ID Type]) 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 identifier at a given index and display the updated symbol table.

Say, the content of the “symbolTable.txt” file is:

1	x1	var
2	f1	func
3	x	var
4	z	var
5	main	func
6	n1	var

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