United International University (UIU)

Dept. of Computer Science & Engineering (CSE)

FINAL Year: 2022 Trimester: Spring Program: BSCSE Course: CSI 412 Compiler Lab

Marks: 20, Time: 60 Minutes

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1. Write a code in any language to evaluate an infix expression and verify the result of it. First take an infix expression, evaluate it. Then take a result as input and verify your answer with given one. If verified write “Varified” or else “ Not verified”. **[10]**

Sample Input	**Sample Output**
Expression: (2+5)*2 Result: 14	Verified
Expression: (2+5)*2 Result: 18	Not Verified

2. Write a code in any language to tokenize an infix expression. Here, **[10]**

Variables = ID

Puntuations = PUNC

Constant = CONST

Operators = OP

Keywords = KEY

Sample Input	**Sample Output**
position = initial + rate ∗ 60	<ID,1><PUNC,1><ID,2><OP,1><ID,3><OP,2><CONST,1>
int a=b+rate;	<KEY,1><ID,1><PUNC,1><ID,2><OP,1><ID,3><PUNC,2>