COMP-2310 DATA STRUCTURES AND ALGORITHMS

ASSIGNMENT-2

OCTOBER 17,2022

1.Write a new expression similar to the following (Change the positions of orerators):

E1 = a+b\*c+(d\*e+f)\*g [ Use your own operators : /,\*,+…]

a)Convert your expression to postfix form.

b) Trace the algorithm Postfix on slide 39 using your expression.

You can use the format on slide 49.

2.Write a new expression similar to the following :

E2= 6\*((5+(2+3)\*8)+3)

1. Convert your expression to postfix form.
2. Trace EvalPostfix algorithm on slide 54 using your expression.

3.Write a program that receives some input values and

a) Displays these values by pointers,

1. Displays their memory addresses.

4.Write an algorihm in pseudocode

a) to insert a new node inside a linked list (Study slide 25)

b)to delete a node from inside a linked list (Study slide 28)