#### **OUTPUT**

## **Bibek Dhungana**

#### Lab 6

Case 1: (3 + ((5+9) \*2))

```
Enter the expression:(3 + ((5+9) *2))
The inorder traversal of the given expression tree is:3 + 5 + 9 * 2
The preorder traversal of the given expression tree is:+ 3 5 + 9 * 2
The postorder traversal of the given expression tree is:3 5 + 9 * 2 +
The value associated with root is 31
The expression tree produced is:
******* Horizontal Expression Tree***********
                   3
                             5
```

Th + is head node and it shows the horizontal tree.

### Case 2: ((3 + 2) -6) \*2

### Case 3: 5 + 6

# Case 4: Invalid input

```
Enter the expression:56 )))) 76 990 _((
Expression can only contains digits, operators(%,^,+,-, /, *) and parenthesis().
```