LEADING AND TRAILING

AIM : A program to implement Leading and Trailing

ALGORITHM :

1. For Leading, check for the first non-terminal.
2. If found, print it.
3. Look for next production for the same non-terminal.
4. If not found, recursively call the procedure for the single non-terminal present before the
comma or End Of Production String.
5. Include it's results in the result of this non-terminal.
6. For trailing, we compute same as leading but we start from the end of the production to the beginning.
7. Stop

OUTPUT:

```
Enter the no. of variables : 3
Enter the variables :
E
T
F
Enter the no. of terminals : 5
Enter the terminals : )
(
*
+
i
PRODUCTION DETAILS

Enter the no. of production of E:2
E->E+T
E->T
Enter the no. of production of T:2
T->T*F
T->F
Enter the no. of production of F:2
F->(E)
F->i
LEADING(E) = (,*,+,i,
LEADING(T) = (,*,i,
LEADING(F) = (,i,

TRAILING(E) = ),*,+,i,
TRAILING(T) = ),*,i,
TRAILING(F) = ),i,
```