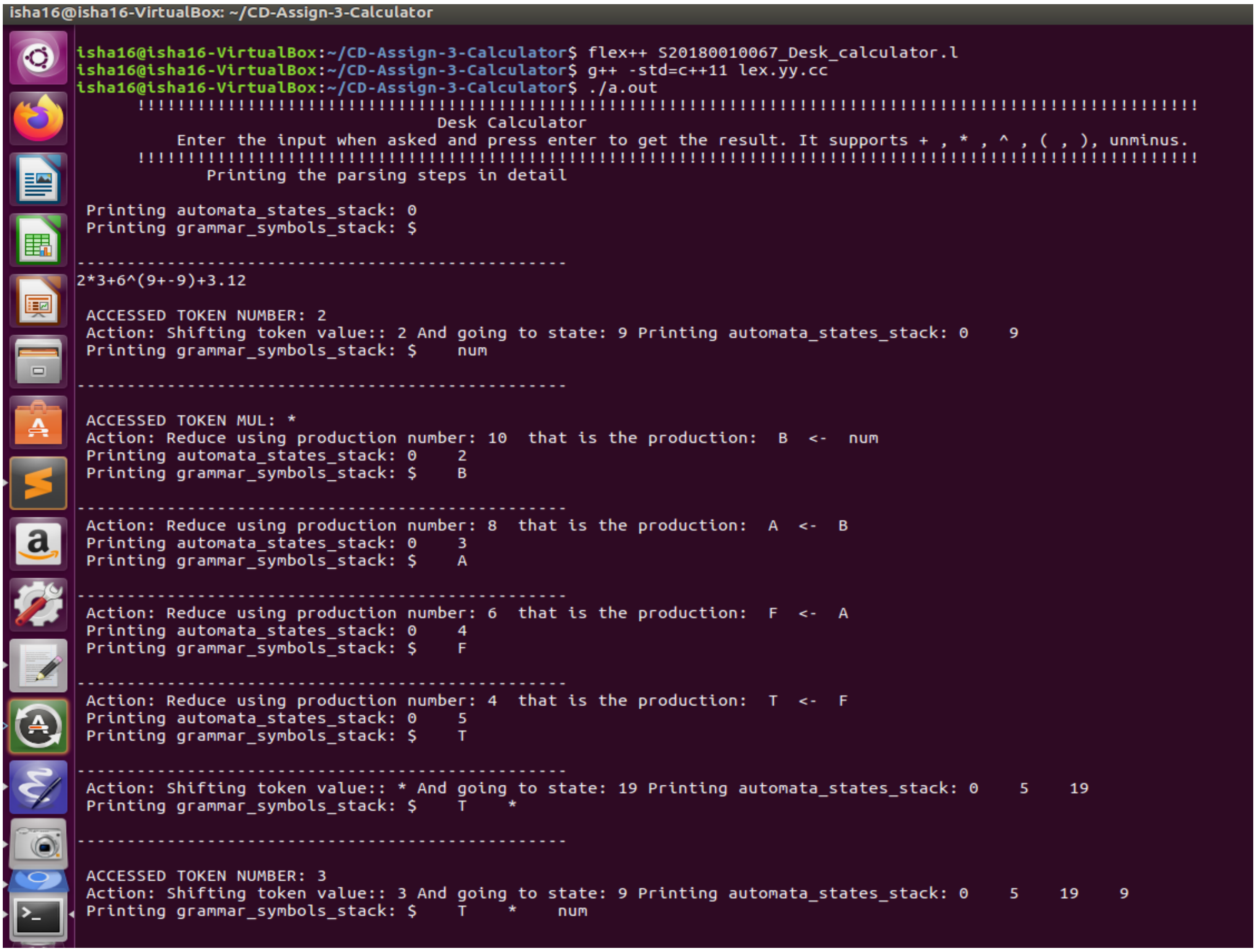
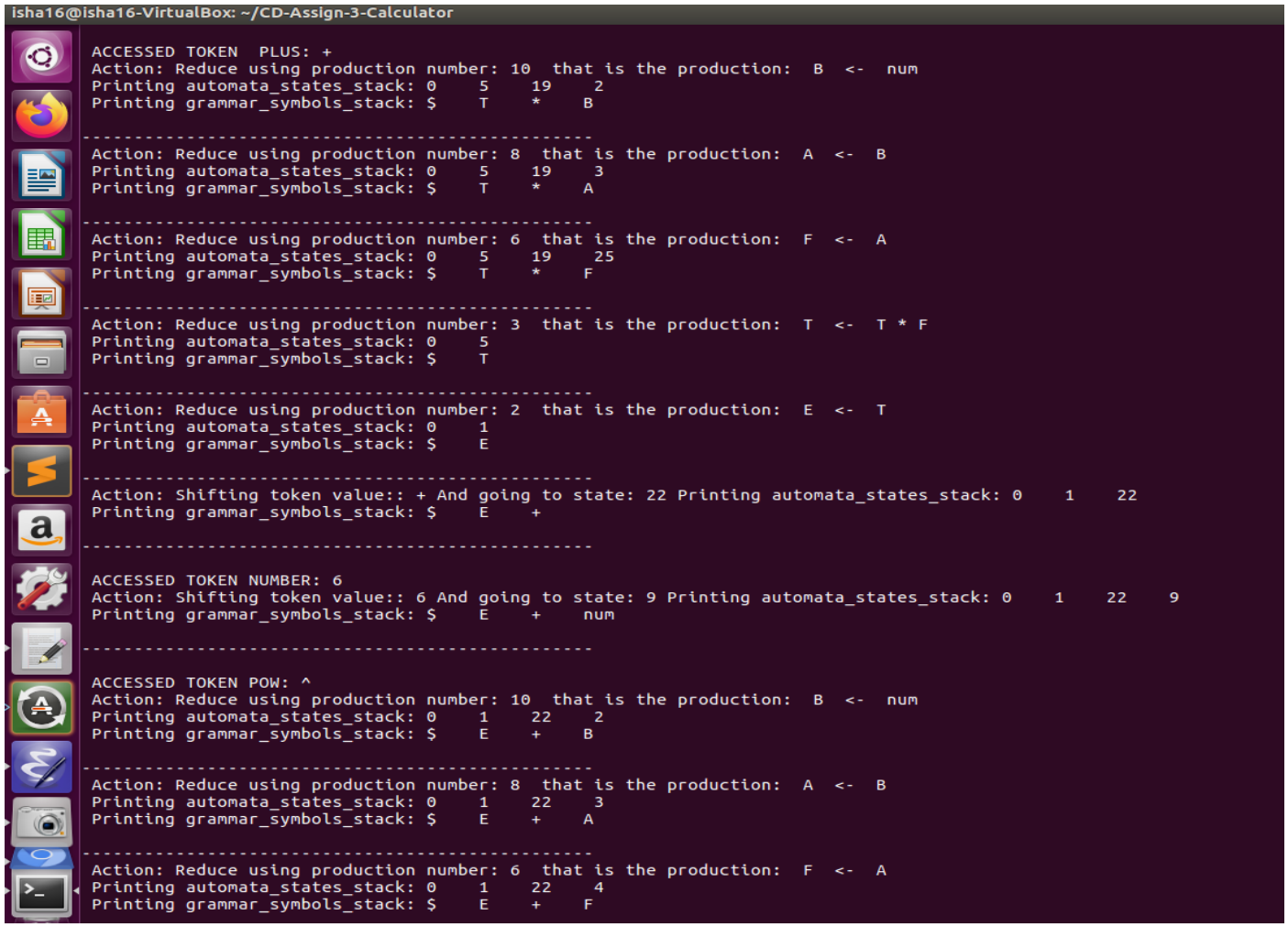
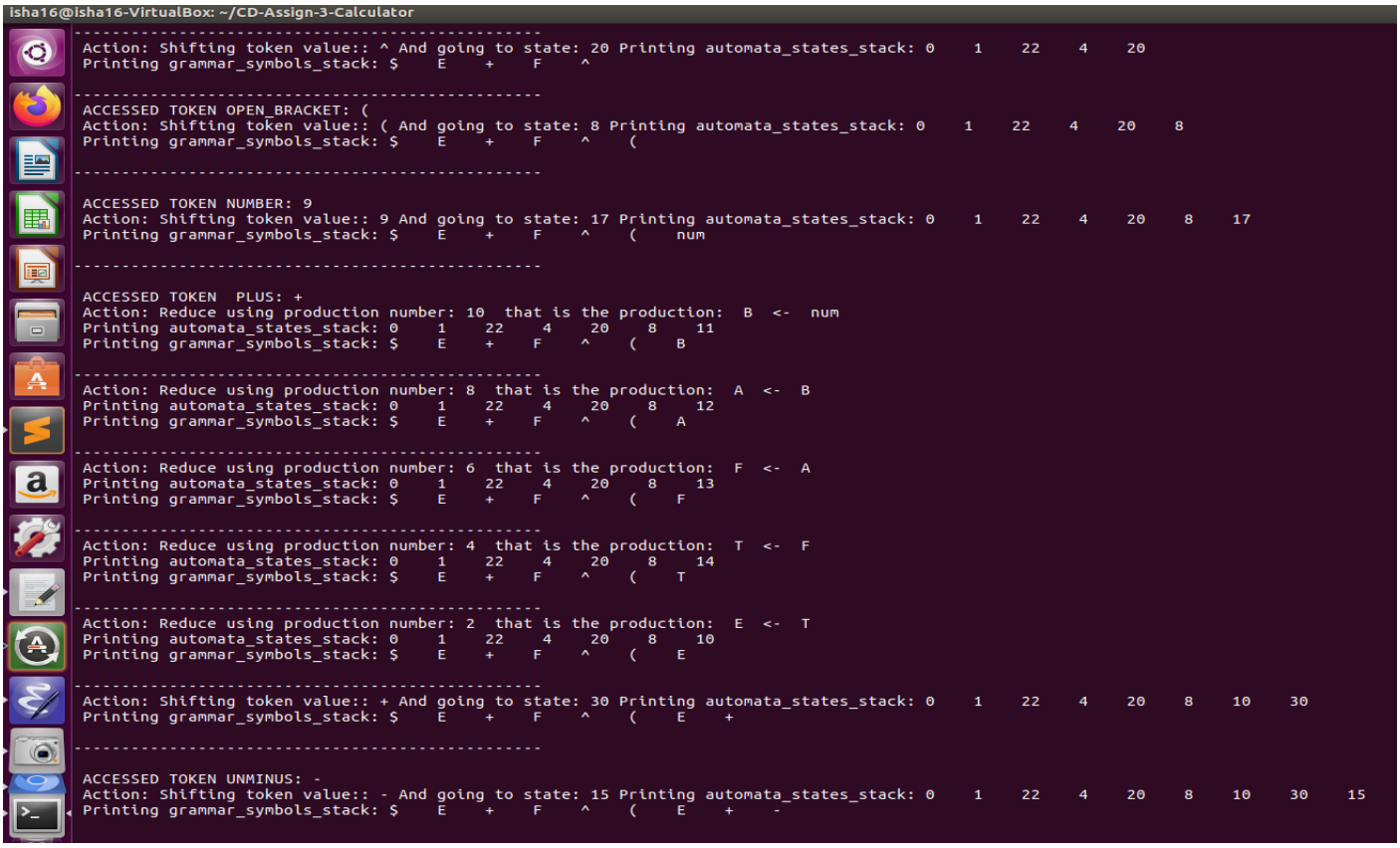
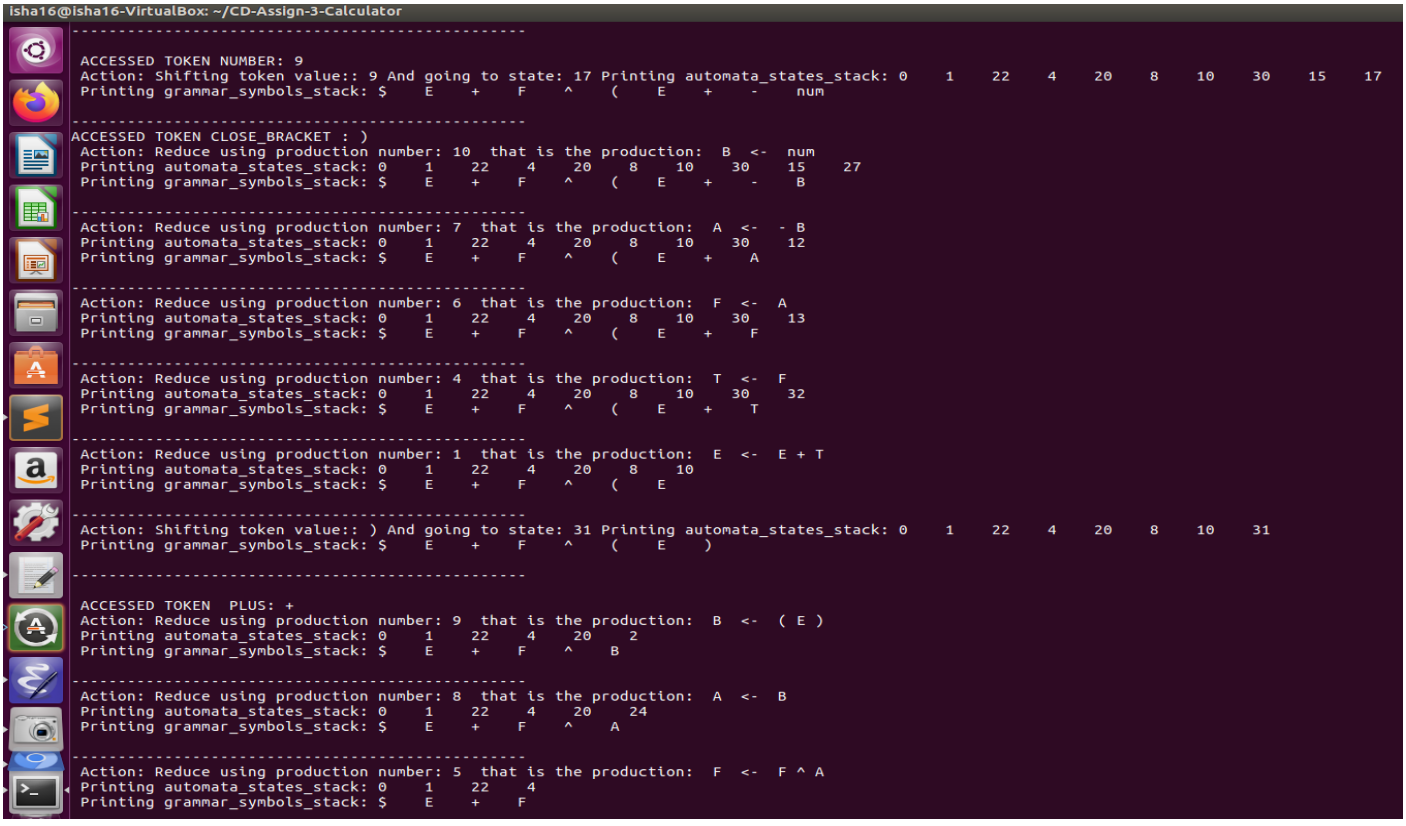
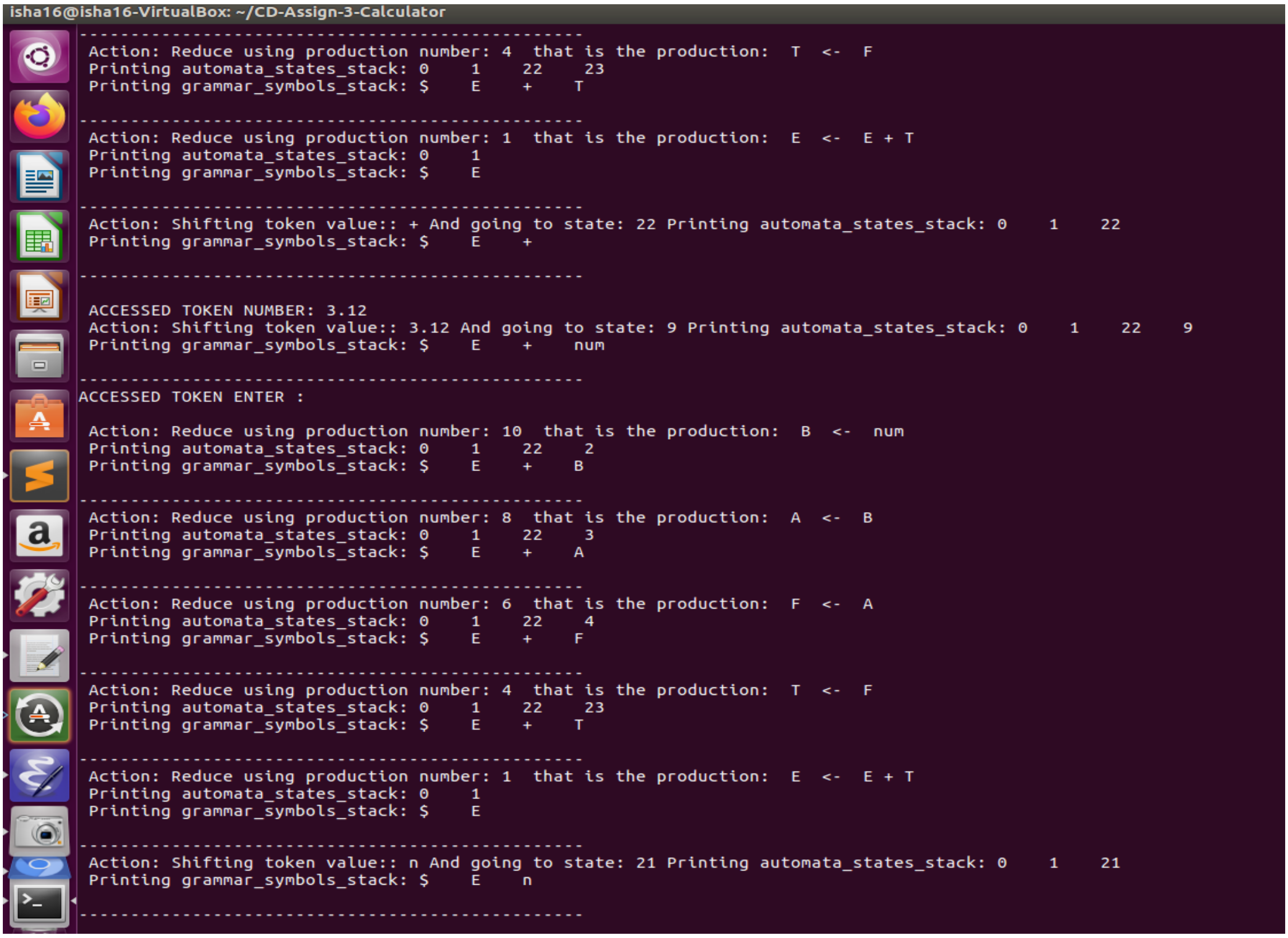
Desk Calculator Test Case screenshot




isha16@isha16-VirtualBox: ~/CD-Assign-3-Calculator
ACCESSED TOKEN PLUS: +
Action: Reduce using production number: 10 that is the production: B <- num
Printing automata_states_stack: 0 5 19 2
Printing grammar_symbols_stack: $ T * B
Action: Reduce using production number: 8 that is the production: A <- B
Printing automata_states_stack: 0 5 19 3
Printing grammar_symbols_stack: $ T * A
Action: Reduce using production number: 6 that is the production: F <- A
Printing automata_states_stack: 0 5 19 25
Printing grammar_symbols_stack: $ T * F
Action: Reduce using production number: 3 that is the production: T <- T * F
Printing automata_states_stack: 0 5
Printing grammar_symbols_stack: $ T
Action: Reduce using production number: 2 that is the production: E <- T
Printing automata_states_stack: 0 1
Printing grammar_symbols_stack: $ E
Action: Shifting token value:: + And going to state: 22 Printing automata_states_stack: 0 1 22
Printing grammar_symbols_stack: $ E +
ACCESSED TOKEN NUMBER: 6
Action: Shifting token value:: 6 And going to state: 9 Printing automata_states_stack: 0 1 22 9
Printing grammar_symbols_stack: $ E + num
ACCESSED TOKEN POW: ^
Action: Reduce using production number: 10 that is the production: B <- num
Printing automata_states_stack: 0 1 22 2
Printing grammar_symbols_stack: $ E + B
Action: Reduce using production number: 8 that is the production: A <- B
Printing automata_states_stack: 0 1 22 3
Printing grammar_symbols_stack: $ E + A
Action: Reduce using production number: 6 that is the production: F <- A
Printing automata_states_stack: 0 1 22 4
Printing grammar_symbols_stack: $ E + F


isha16@isha16-VirtualBox: ~/CD-Assign-3-Calculator
Action: Shifting token value:: ^ And going to state: 20 Printing automata_states_stack: 0 1 22 4 20
Printing grammar_symbols_stack: $ E + F ^
ACCESSED TOKEN OPEN_BRACKET: (
Action: Shifting token value:: (And going to state: 8 Printing automata_states_stack: 0 1 22 4 20 8
Printing grammar_symbols_stack: $ E + F ^ (
ACCESSED TOKEN NUMBER: 9
Action: Shifting token value:: 9 And going to state: 17 Printing automata_states_stack: 0 1 22 4 20 8 17
Printing grammar_symbols_stack: $ E + F ^ (num
ACCESSED TOKEN PLUS: +
Action: Reduce using production number: 10 that is the production: B <- num
Printing automata_states_stack: 0 1 22 4 20 8 11
Printing grammar_symbols_stack: $ E + F ^ (B
Action: Reduce using production number: 8 that is the production: A <- B
Printing automata_states_stack: 0 1 22 4 20 8 12
Printing grammar_symbols_stack: $ E + F ^ (A
Action: Reduce using production number: 6 that is the production: F <- A
Printing automata_states_stack: 0 1 22 4 20 8 13
Printing grammar_symbols_stack: $ E + F ^ (F
Action: Reduce using production number: 4 that is the production: T <- F
Printing automata_states_stack: 0 1 22 4 20 8 14
Printing grammar_symbols_stack: $ E + F ^ (T
Action: Reduce using production number: 2 that is the production: E <- T
Printing automata_states_stack: 0 1 22 4 20 8 10
Printing grammar_symbols_stack: $ E + F ^ (E
Action: Shifting token value:: + And going to state: 30 Printing automata_states_stack: 0 1 22 4 20 8 10 30
Printing grammar_symbols_stack: $ E + F ^ (E +
ACCESSED TOKEN UNMINUS: -
Action: Shifting token value:: - And going to state: 15 Printing automata_states_stack: 0 1 22 4 20 8 10 30 15
Printing grammar_symbols_stack: $ E + F ^ (E + -


isha16@isha16-VirtualBox: ~/CD-Assign-3-Calculator
ACCESSED TOKEN NUMBER: 9
Action: Shifting token value:: 9 And going to state: 17 Printing automata_states_stack: 0 1 22 4 20 8 10 30 15 17
Printing grammar_symbols_stack: $ E + F ^ (E + - num
ACCESSED TOKEN CLOSE_BRACKET :)
Action: Reduce using production number: 10 that is the production: B <- num
Printing automata_states_stack: 0 1 22 4 20 8 10 30 15 27
Printing grammar_symbols_stack: $ E + F ^ (E + - B
Action: Reduce using production number: 7 that is the production: A <- - B
Printing automata_states_stack: 0 1 22 4 20 8 10 30 12
Printing grammar_symbols_stack: $ E + F ^ (E + A
Action: Reduce using production number: 6 that is the production: F <- A
Printing automata_states_stack: 0 1 22 4 20 8 10 30 13
Printing grammar_symbols_stack: $ E + F ^ (E + F
Action: Reduce using production number: 4 that is the production: T <- F
Printing automata_states_stack: 0 1 22 4 20 8 10 30 32
Printing grammar_symbols_stack: $ E + F ^ (E + T
Action: Reduce using production number: 1 that is the production: E <- E + T
Printing automata_states_stack: 0 1 22 4 20 8 10
Printing grammar_symbols_stack: $ E + F ^ (E
Action: Shifting token value::) And going to state: 31 Printing automata_states_stack: 0 1 22 4 20 8 10 31
Printing grammar_symbols_stack: $ E + F ^ (E)
ACCESSED TOKEN PLUS: +
Action: Reduce using production number: 9 that is the production: B <- (E)
Printing automata_states_stack: 0 1 22 4 20 2
Printing grammar_symbols_stack: $ E + F ^ B
Action: Reduce using production number: 8 that is the production: A <- B
Printing automata_states_stack: 0 1 22 4 20 24
Printing grammar_symbols_stack: $ E + F ^ A
Action: Reduce using production number: 5 that is the production: F <- F ^ A
Printing automata_states_stack: 0 1 22 4
Printing grammar_symbols_stack: $ E + F



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isha16@isha16-VirtualBox: ~/CD-Assign-3-Calculator
------------------------------------------------
 Action: Reduce using production number: 4  that is the production:  T  <-  F
 Printing automata_states_stack: 0    1    22    23
 Printing grammar_symbols_stack: $    E    +    T

------------------------------------------------
 Action: Reduce using production number: 1  that is the production:  E  <-  E + T
 Printing automata_states_stack: 0    1
 Printing grammar_symbols_stack: $    E

------------------------------------------------
 Action: Shifting token value:: + And going to state: 22 Printing automata_states_stack: 0    1    22
 Printing grammar_symbols_stack: $    E    +

------------------------------------------------

 ACCESSED TOKEN NUMBER: 3.12
 Action: Shifting token value:: 3.12 And going to state: 9 Printing automata_states_stack: 0    1    22    9
 Printing grammar_symbols_stack: $    E    +    num

------------------------------------------------
ACCESSED TOKEN ENTER :

 Action: Reduce using production number: 10  that is the production:  B  <-  num
 Printing automata_states_stack: 0    1    22    2
 Printing grammar_symbols_stack: $    E    +    B

------------------------------------------------
 Action: Reduce using production number: 8  that is the production:  A  <-  B
 Printing automata_states_stack: 0    1    22    3
 Printing grammar_symbols_stack: $    E    +    A

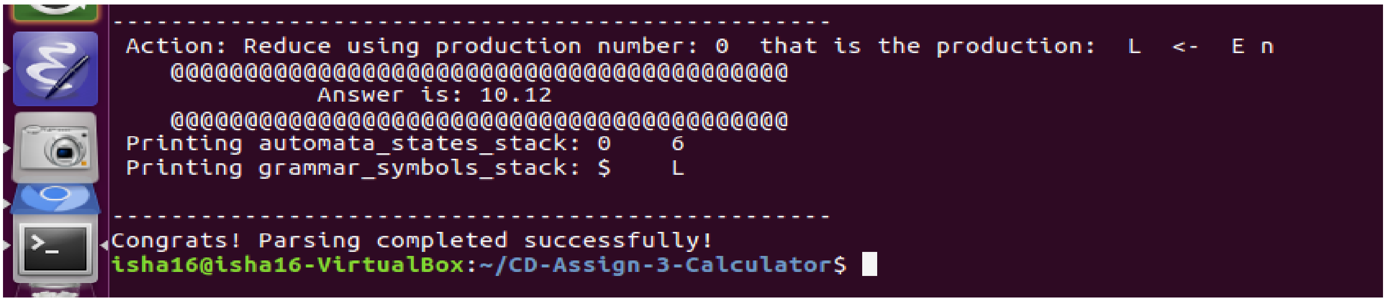
------------------------------------------------
 Action: Reduce using production number: 6  that is the production:  F  <-  A
 Printing automata_states_stack: 0    1    22    4
 Printing grammar_symbols_stack: $    E    +    F

------------------------------------------------
 Action: Reduce using production number: 4  that is the production:  T  <-  F
 Printing automata_states_stack: 0    1    22    23
 Printing grammar_symbols_stack: $    E    +    T

------------------------------------------------
 Action: Reduce using production number: 1  that is the production:  E  <-  E + T
 Printing automata_states_stack: 0    1
 Printing grammar_symbols_stack: $    E

------------------------------------------------
 Action: Shifting token value:: n And going to state: 21 Printing automata_states_stack: 0    1    21
 Printing grammar_symbols_stack: $    E    n

------------------------------------------------
```



```
------------------------------------------------
 Action: Reduce using production number: 0  that is the production:  L  <-  E n
    @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
              Answer is: 10.12
    @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
 Printing automata_states_stack: 0    6
 Printing grammar_symbols_stack: $    L

------------------------------------------------
Congrats! Parsing completed successfully!
isha16@isha16-VirtualBox:~/CD-Assign-3-Calculator$
```