Programming Language (CS-571-01)
Assignment – 2

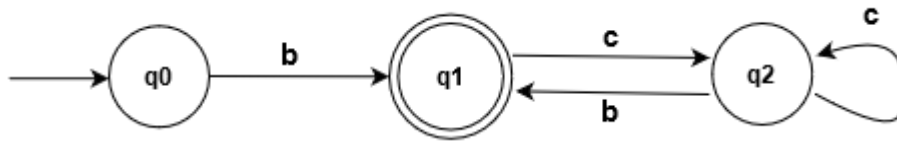**Name – Chaitanya Kulkarni**   **B-Number: B00814455**

Ans 1.

Regex for the given question = /((a+)(b?))+/
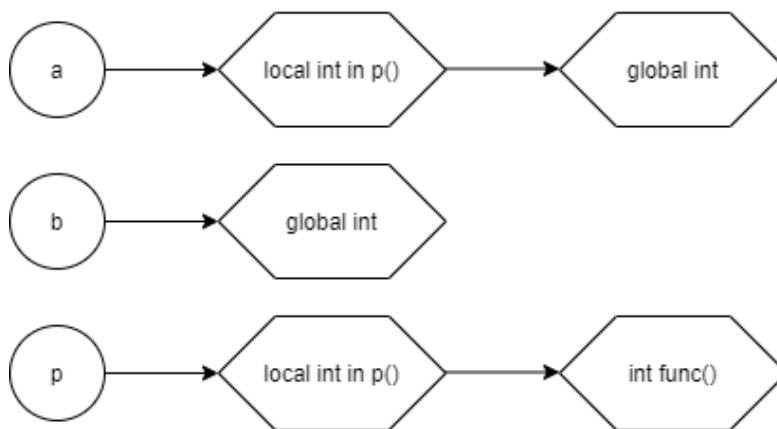
Ans 2.

Automaton for given regex – b(c+b)* is as follows
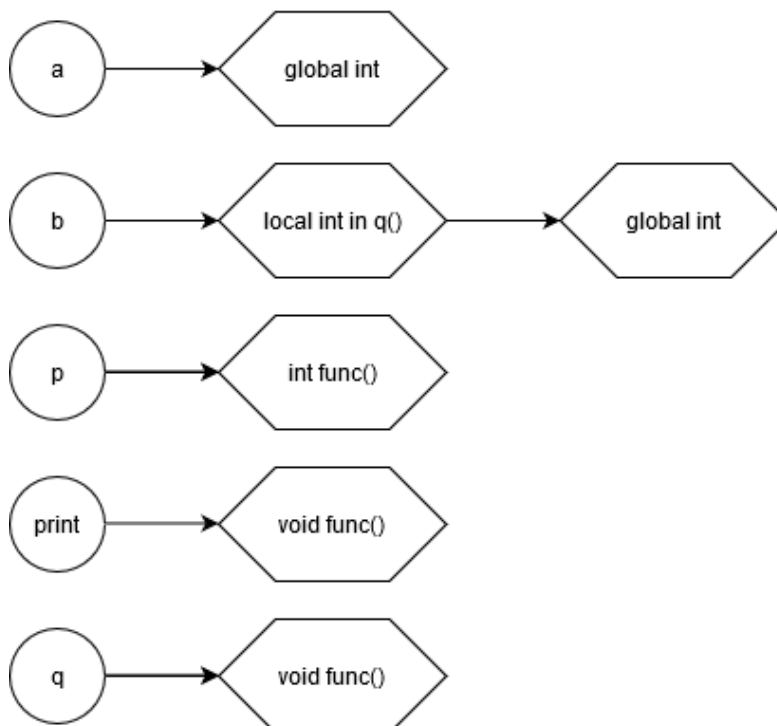

Ans 3.

A. Symbol table for 3 points using static scope -

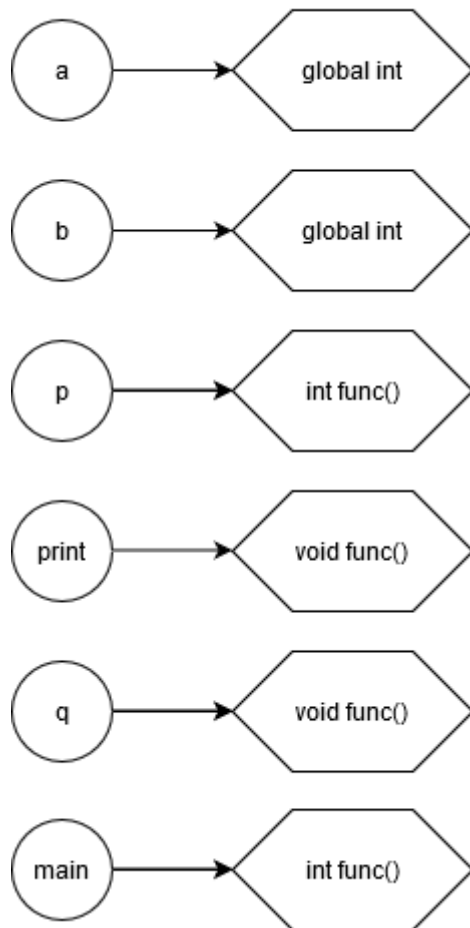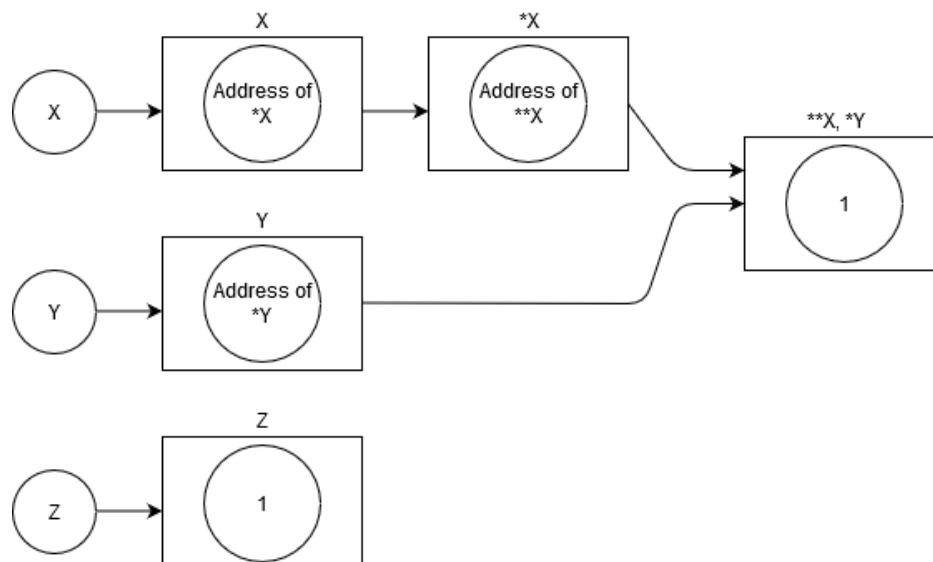--- Point 1 ---

--- Point 2 ---
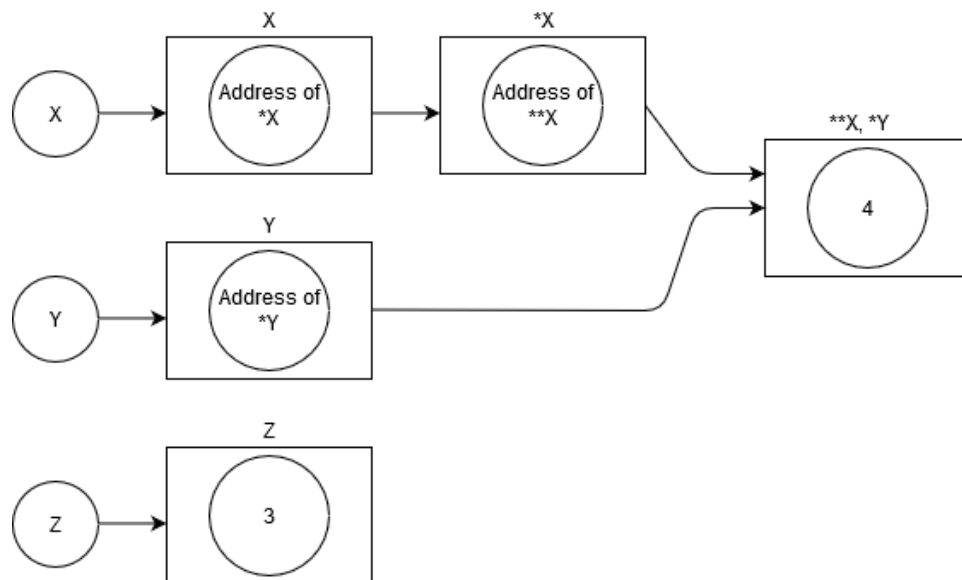
--- Point 3 ---

Program Outputs –
1. Static Scope Rule –
   3
   1
2. Dynamic Scope Rule –
   3
   4

Ans 4.

Box and Circle Diagrams –
- After Line 11

- After Line 15

Aliases – **x and *y

Output –
1
1
3

Ans 5.

Output using call-by-value
1 2 1 0
2 1 0

Output using call-by-reference
1 2 1 0
2 1 0

Output using call-by-name
0 2 1 2
0 1 2

Ans 6.

Program file "match.pl" and input text file "input.txt" is attached in the same folder