

Subject code:CSA1002

Subject:software engineering with data analytics

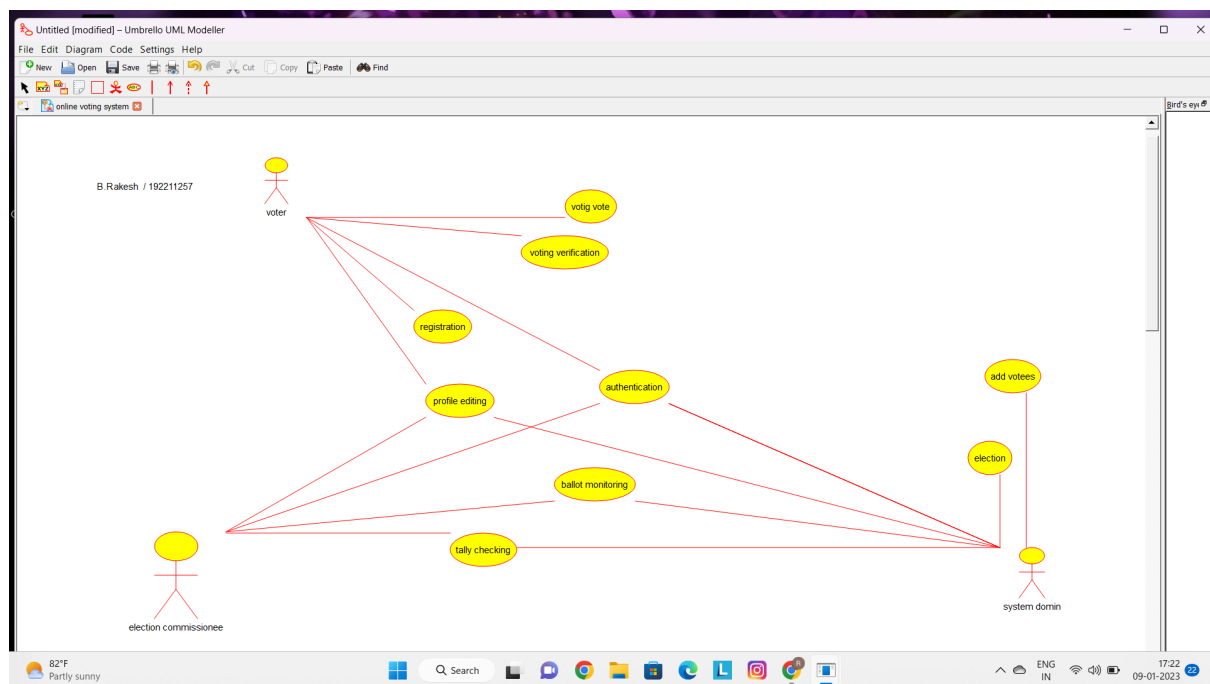
Name:B.Rakesh

Register no:192211257

1. Draw a USE-CASE diagram for Online Voting System using CASE tools.

Aim:To draw a case diagram for an online voting system.

Software used:Umbrello.

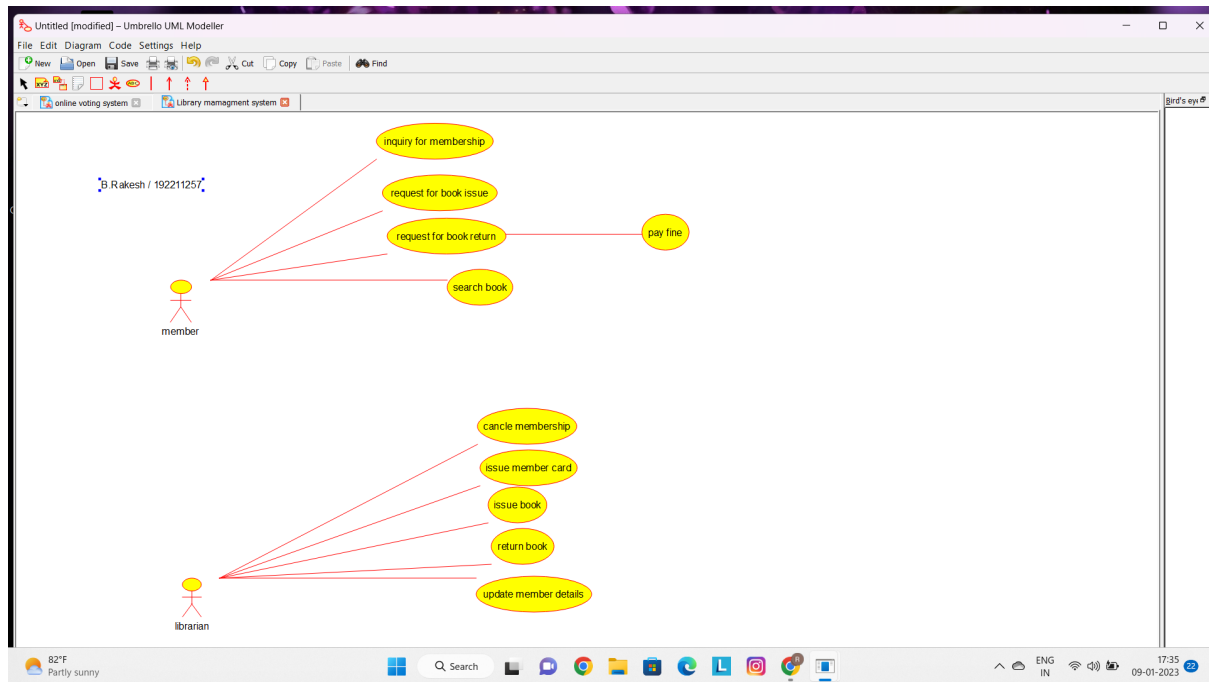


Result:Use case diagram for online voting system was successfully completed.

2. Draw a USE-CASE diagram for Library Management System using CASE tools.

Aim:To draw case diagram for Library Management system.

Software used:Umbrello.

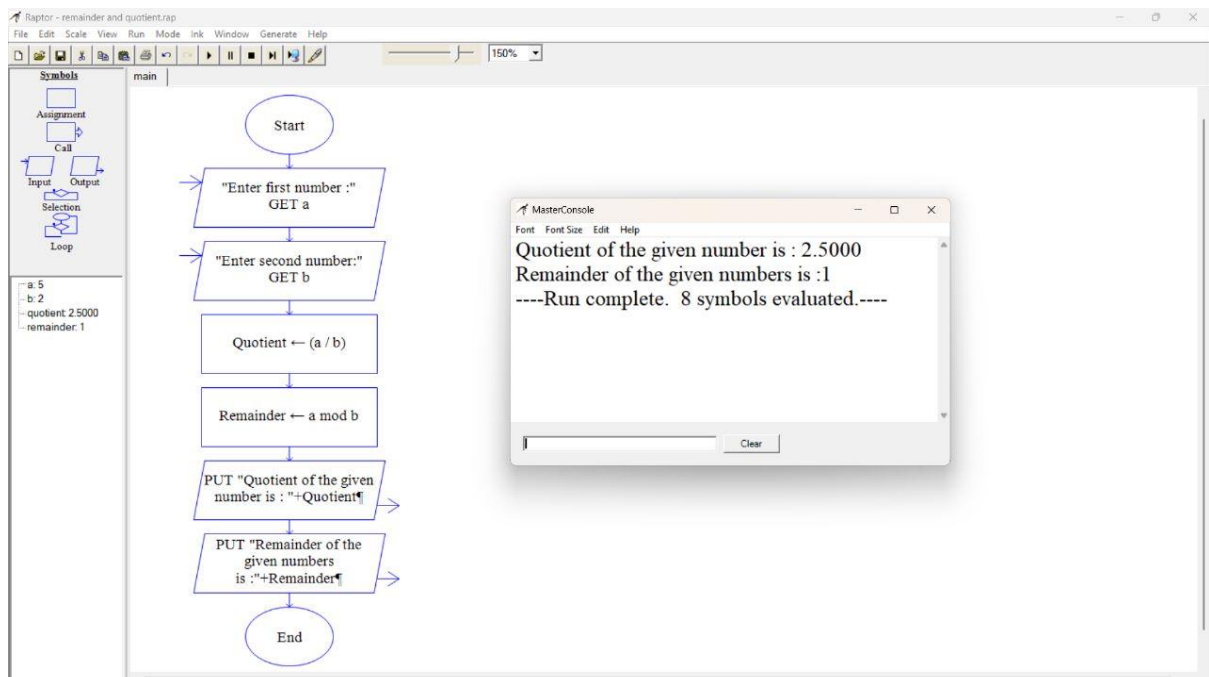


Result: Use case diagram for online library management system was successfully completed.

3. Draw and validate the flowchart to compute the quotient and remainder.

Aim: To draw a flowchart to compute the quotient and remainder

Software used: Raptor.

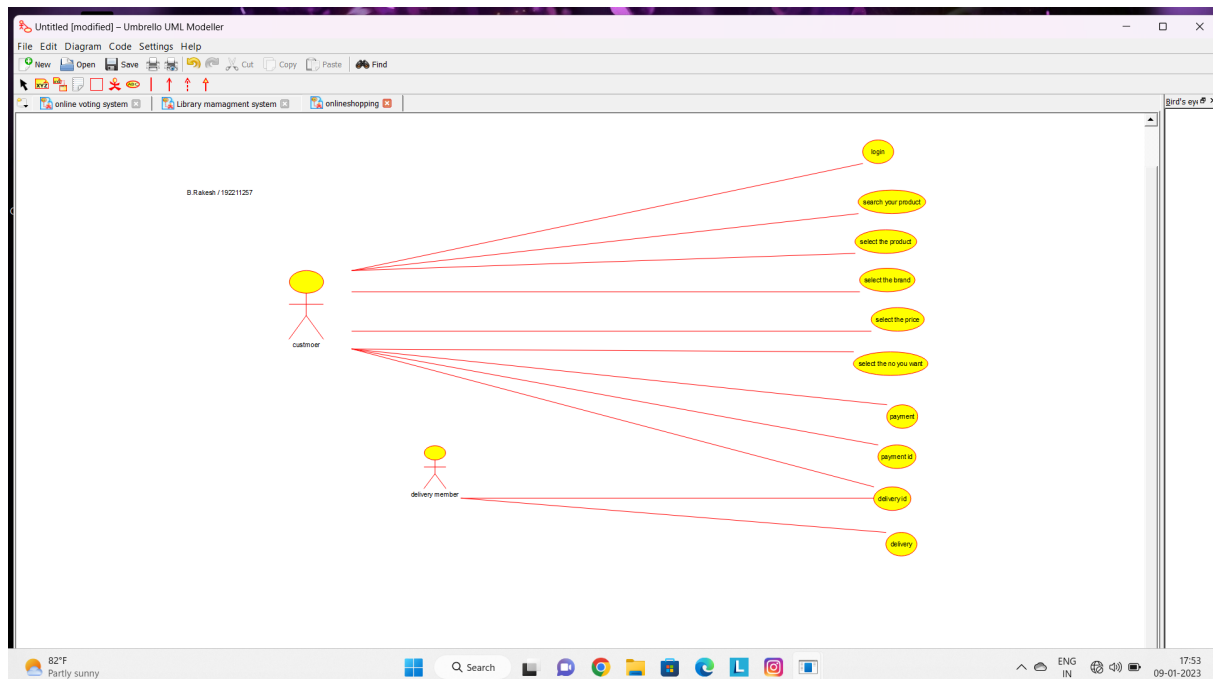


Result: Flowchart to compute the quotient and remainder was completed and output verified.

4. Draw a USE-CASE diagram for online Shopping system using CASE tools.

Aim:To draw a case diagram for online shopping system.

Software used:Umbrello.

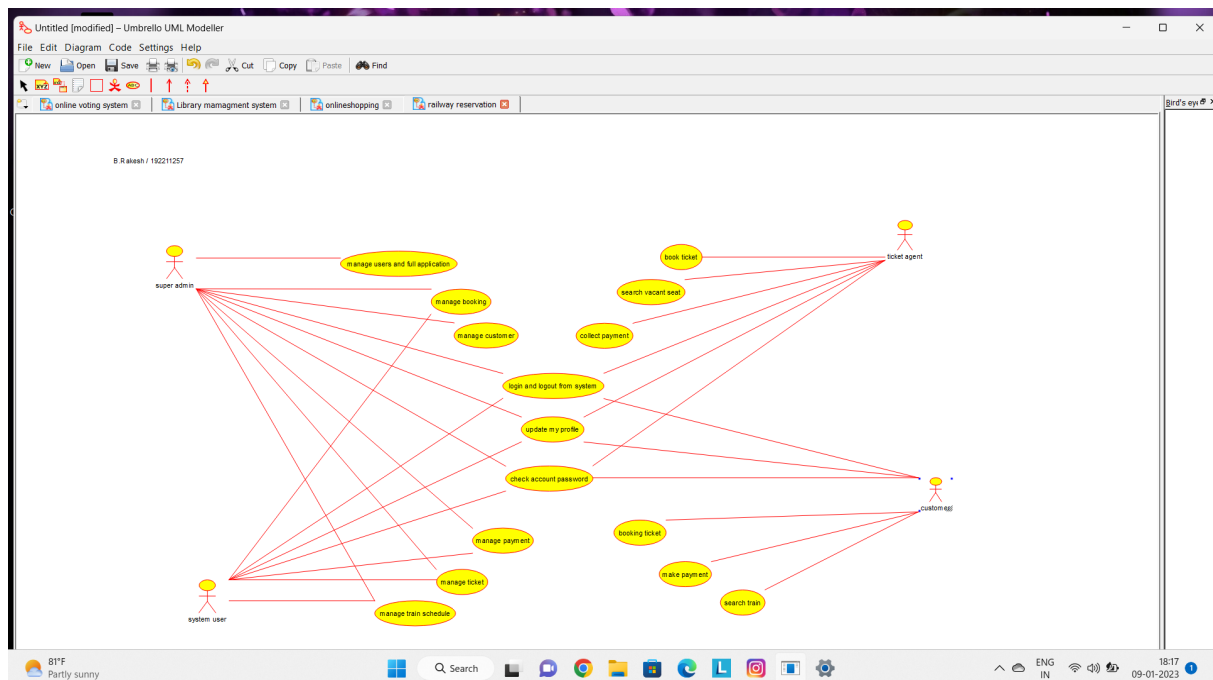


Result:Use case diagram for online shopping was successfully completed.

5. Draw a USE-CASE diagram for Online Railway Reservation System using CASE tools.

Aim:To draw a use case diagram for online railway reservation system.

Software used:Umbrello.

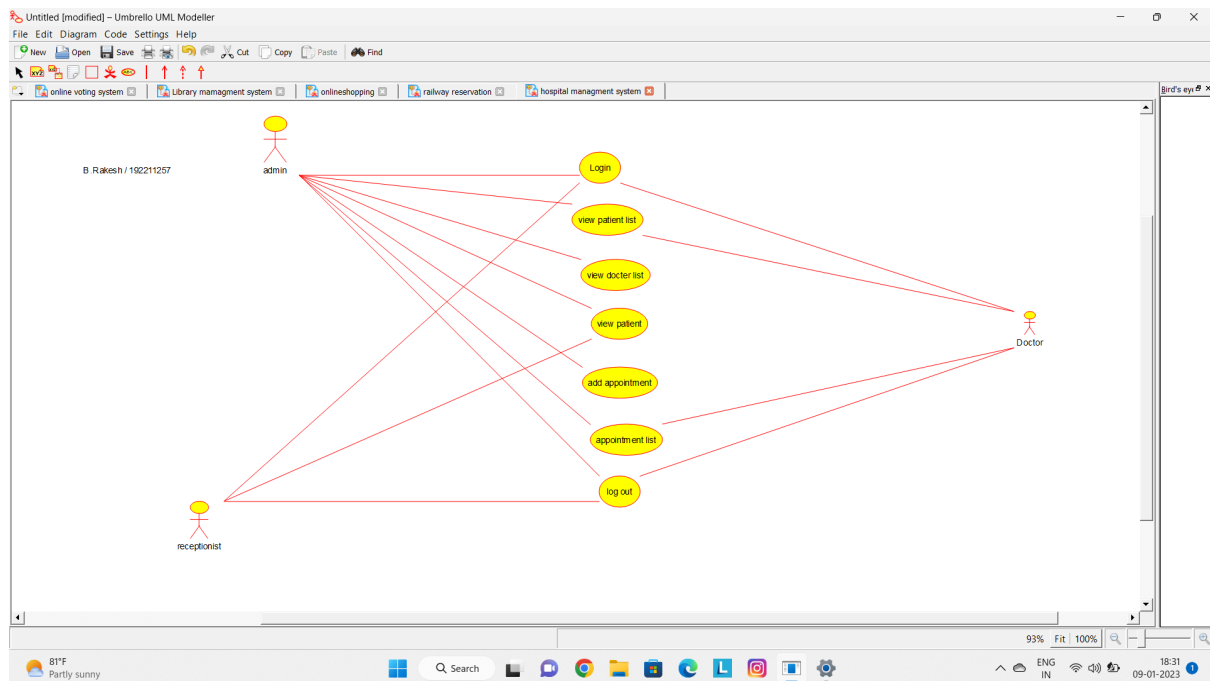


Result:Use case diagram for online railway reservation was successfully completed.

6. Draw a USE-CASE diagram for Hospital Management System using CASE tools.

Aim:To draw a case diagram for hospital management system.

Software used:Umbrello.

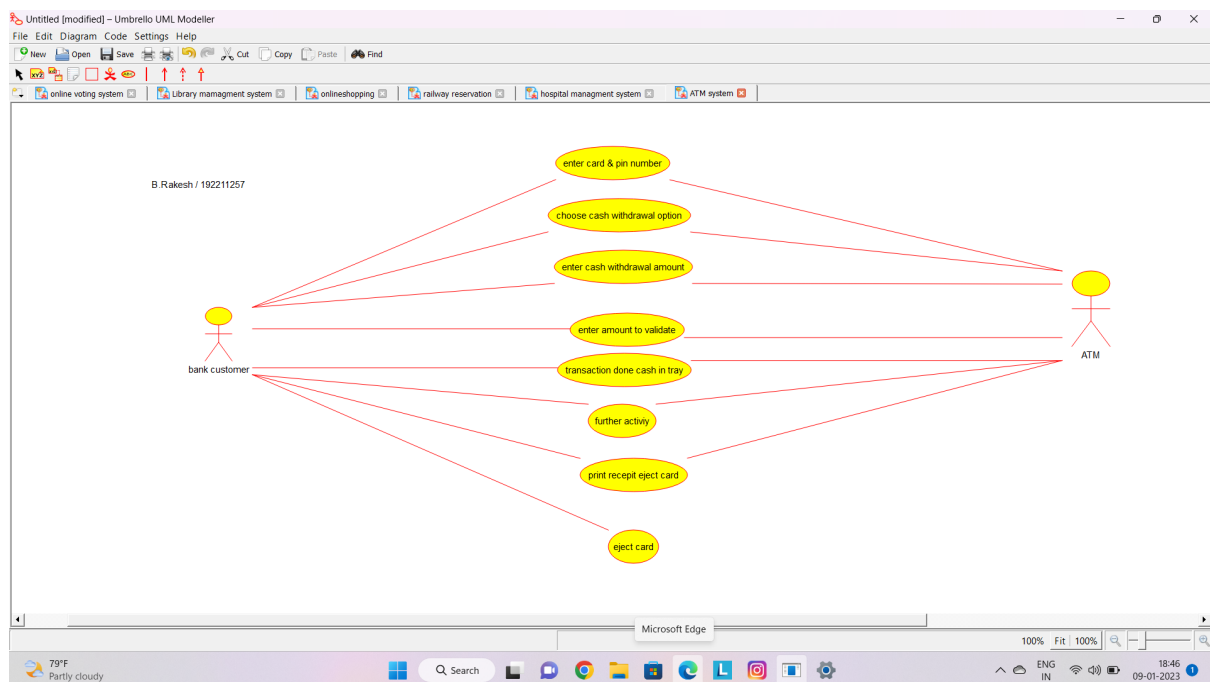


Result:use case diagram for hospital management is successfully completed.

7. Draw a USE-CASE diagram for ATM System using CASE tools.

Aim:To draw a case diagram for ATM system.

Software used:Umbrello.

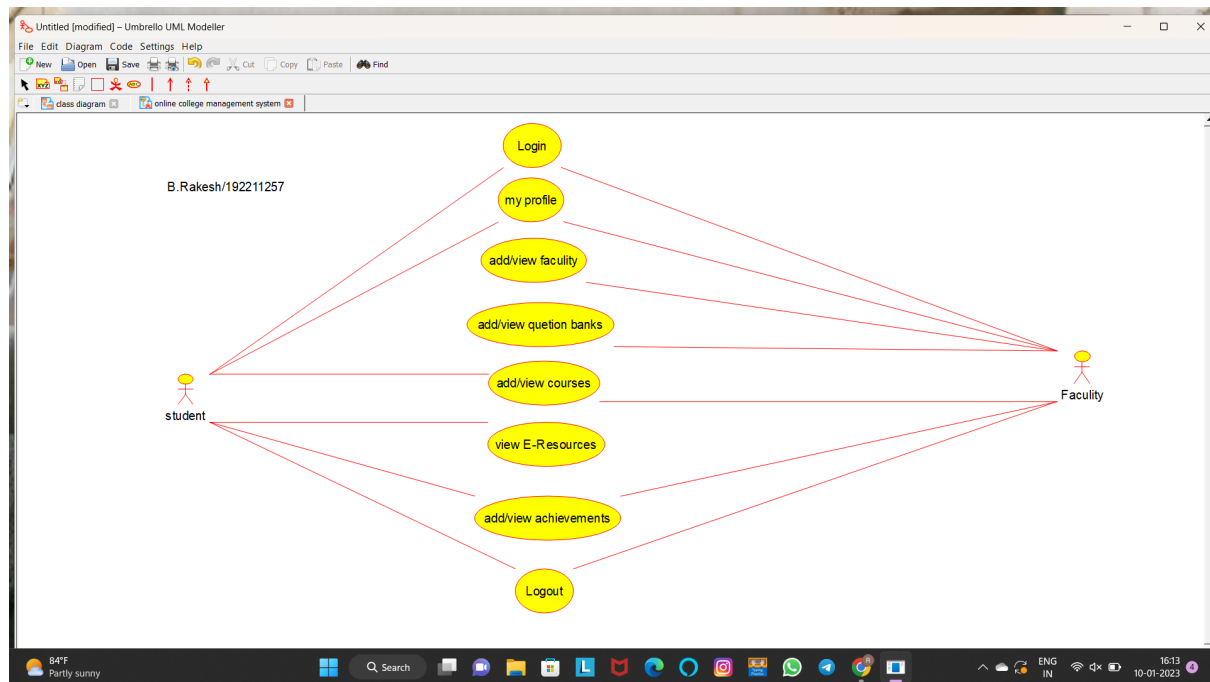


Result: Use case diagram for ATM system successfully completed.

8. Draw a USE-CASE diagram for Online college management System using CASE tools.

Aim: To draw a case diagram for online college management system.

Software used: Umbrello.

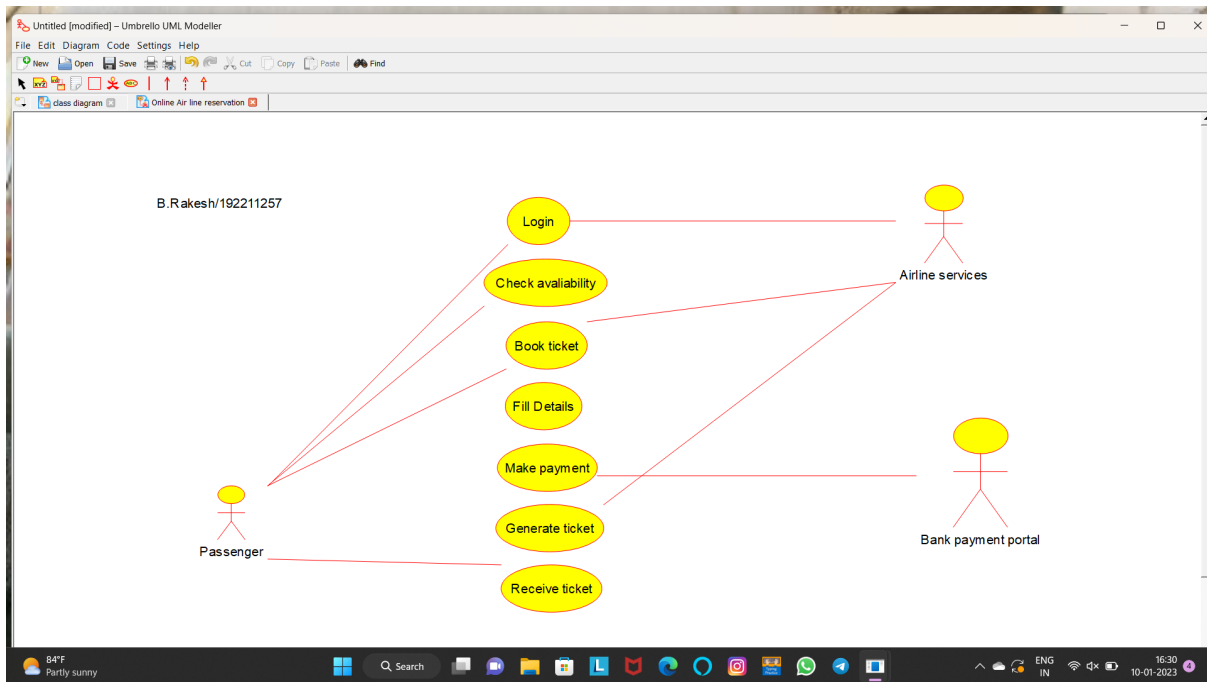


Result: Use case diagram for online college management system was successfully completed.

9. Draw a USE-CASE diagram for Online Airline Reservation System using CASE tools.

Aim: To draw a use case diagram for online Airline reservation system.

Software used: Umbrello.

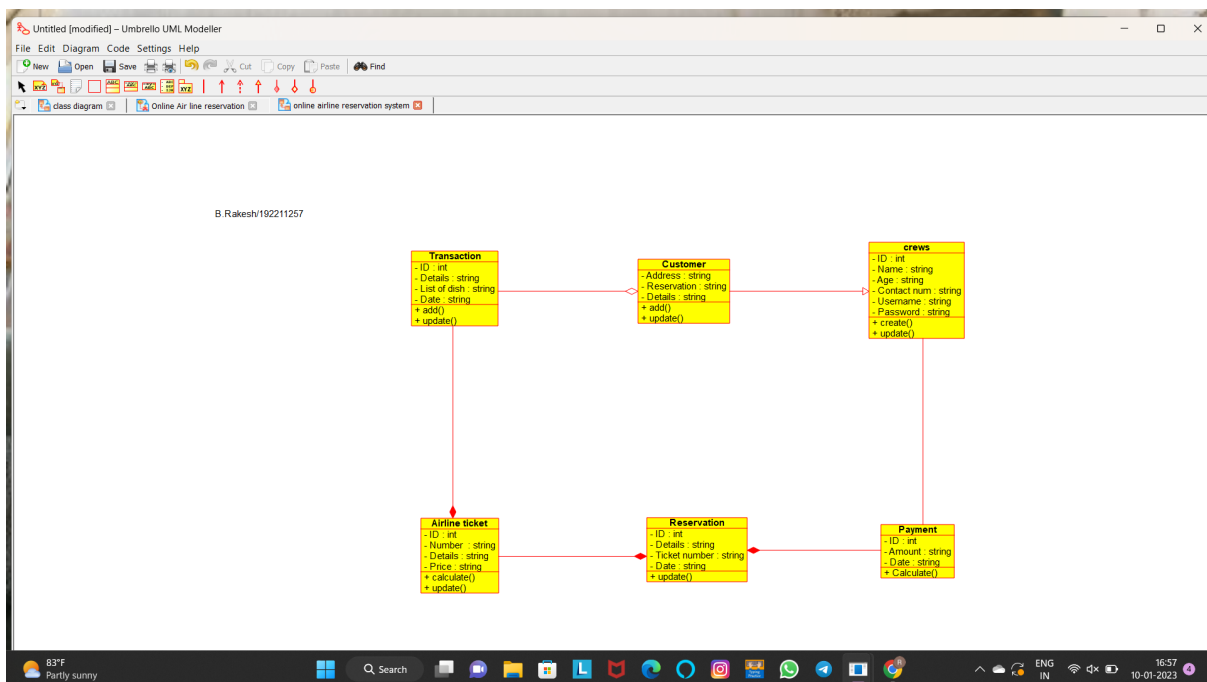


Result: Use case diagram for online Airline reservation system was successfully completed.

10. Draw a Class diagram for Online Airline Reservation System using CASE tools.

Aim: To draw a class diagram for online Airline reservation system.

Software used: Umbrello.

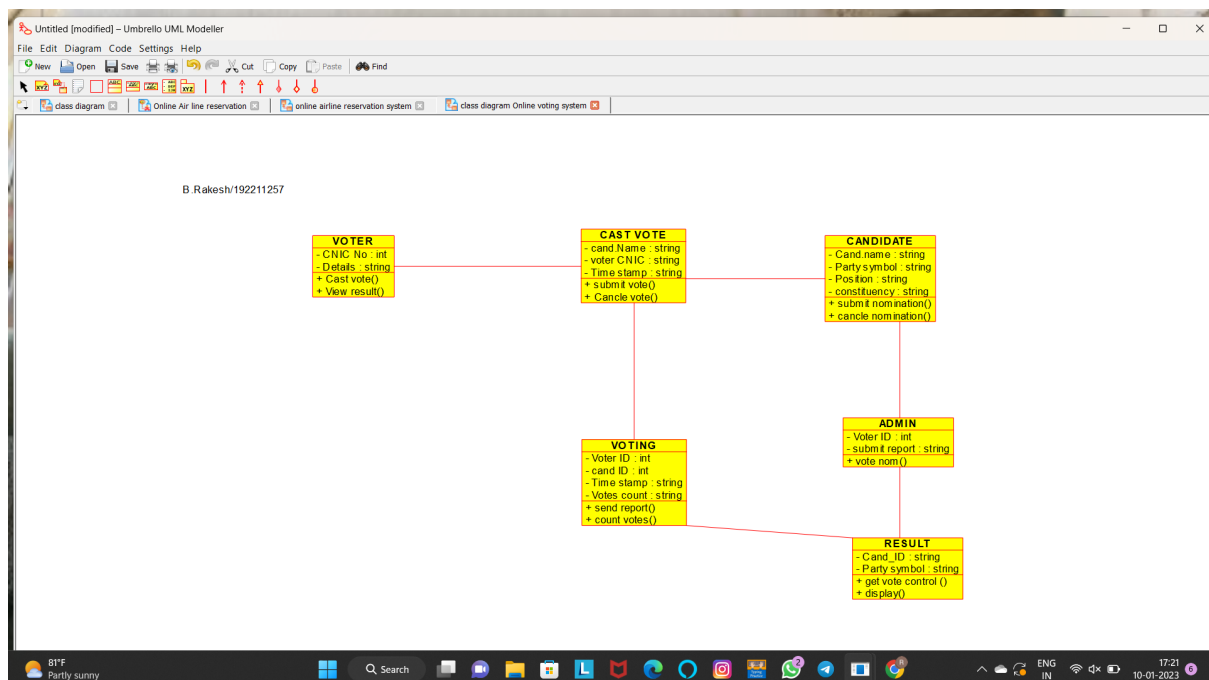


Result: class diagram for online Airline reservation was successfully completed.

11. Draw a Class diagram for Online Voting System using CASE tools.

Aim:To draw class diagram for online voting system.

Software used:Umbrello.

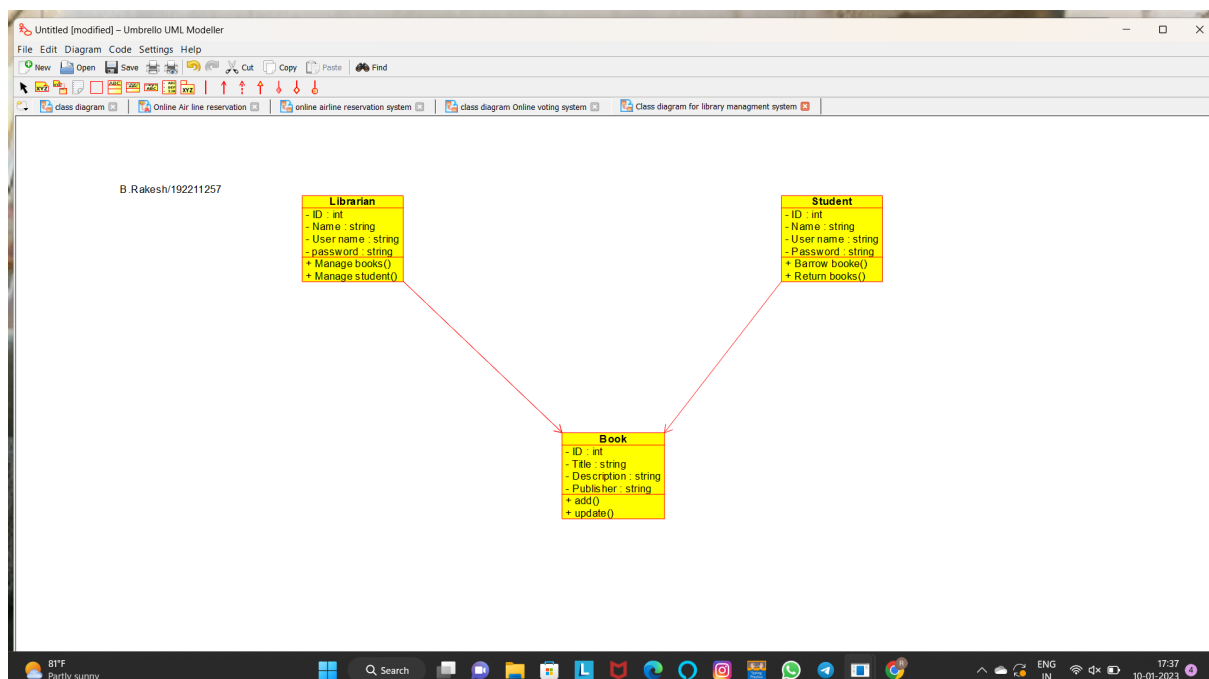


Result:Class diagram for online voting system was successfully completed.

12. Draw a Class diagram for Library Management System using CASE tools.

Aim:To draw a class diagram for Library Management system.

Software used:Umbrello.

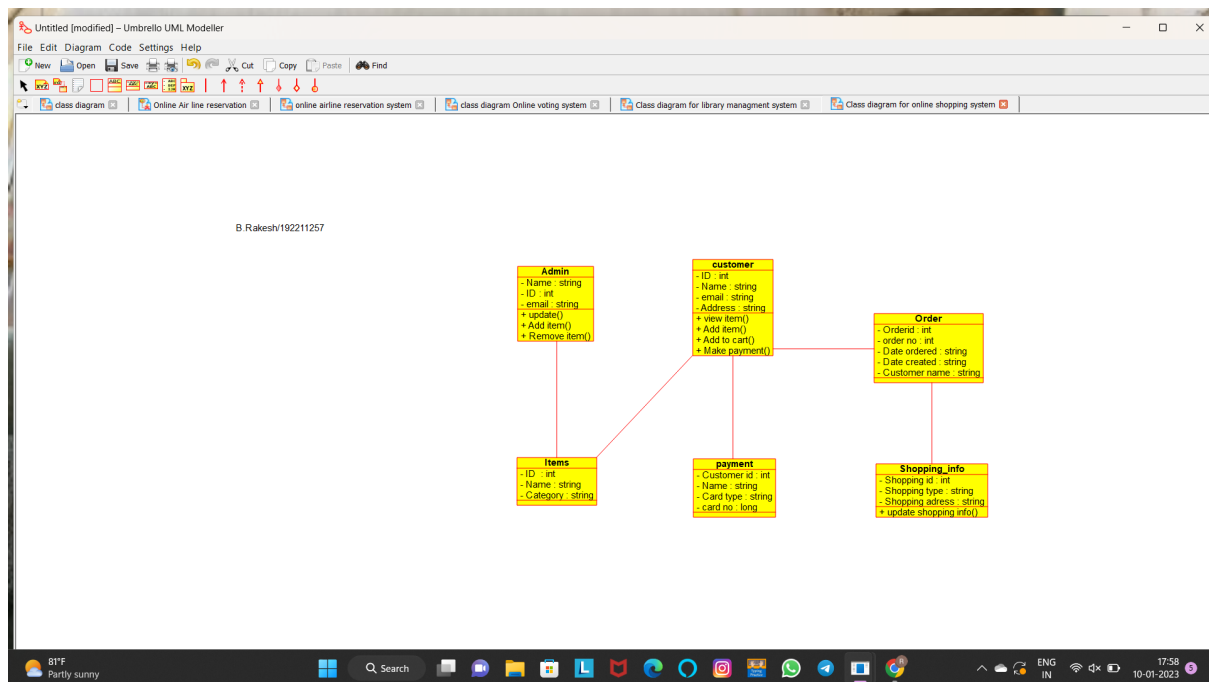


Result:Class diagram for library management system was successfully completed.

13. Draw a Class diagram for Online Shopping system using CASE tools.

Aim:To draw a class diagram for online shopping system.

Software used:Umbrello.

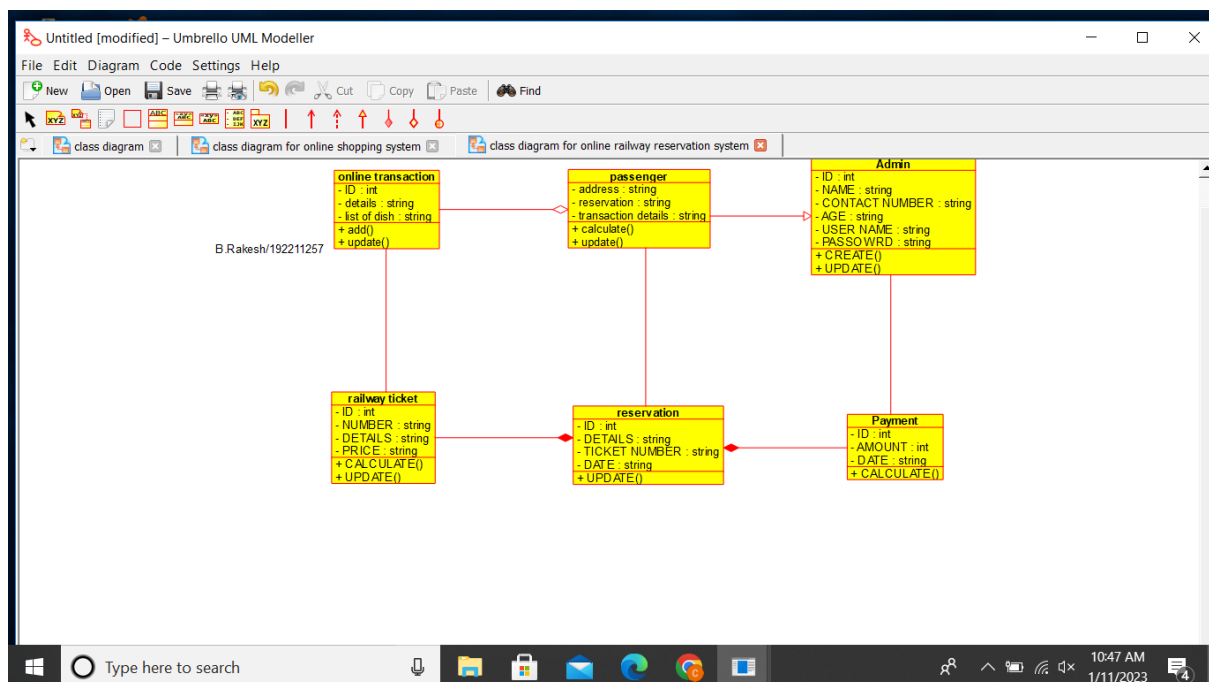


Result:Class diagram for online shopping system was successfully completed

14. Draw a Class diagram for Online Railway Reservation System using CASE tools.

Aim:To draw a class diagram for online Railway Reservation system.

Software used:Umbrello.

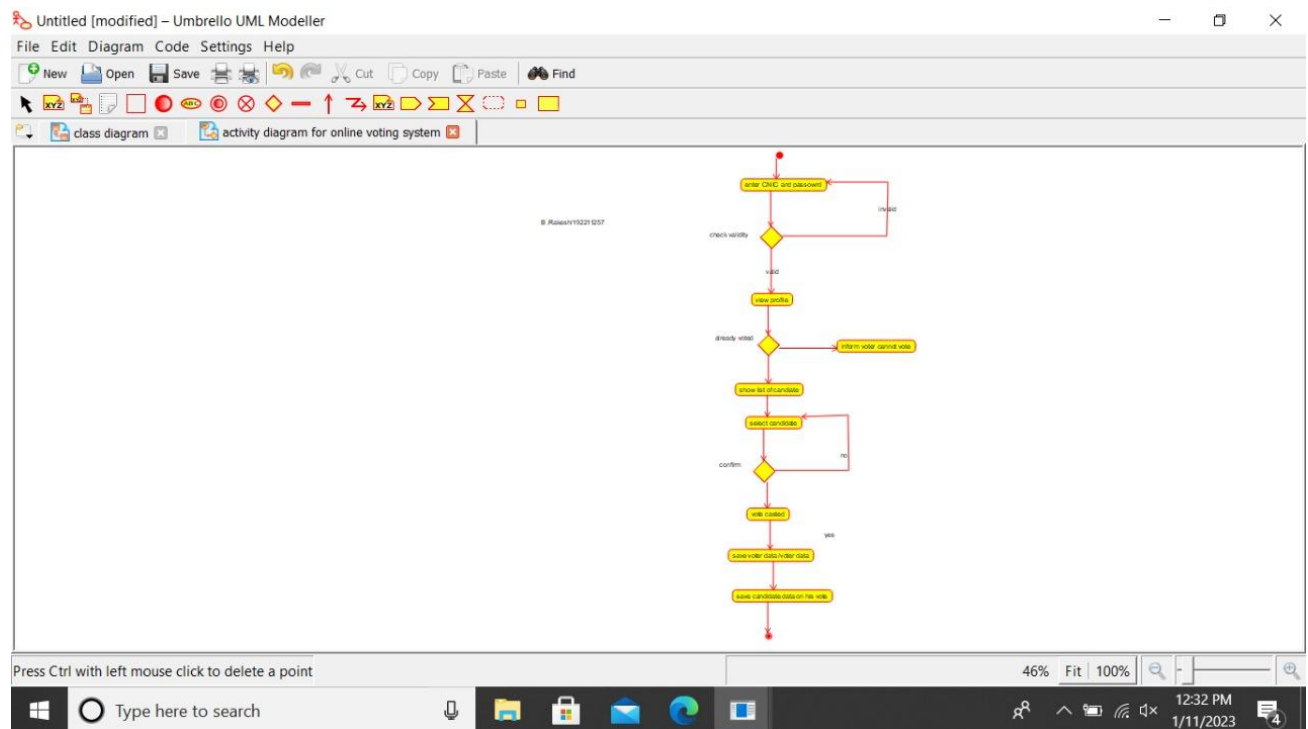


Result:Class diagram for online Railway Reservation system was successfully completed.

15. Draw a Activity diagram for Online Voting System using CASE tools.

Aim:To draw a Activity diagram for online Voting system.

Software used:Umbrello.

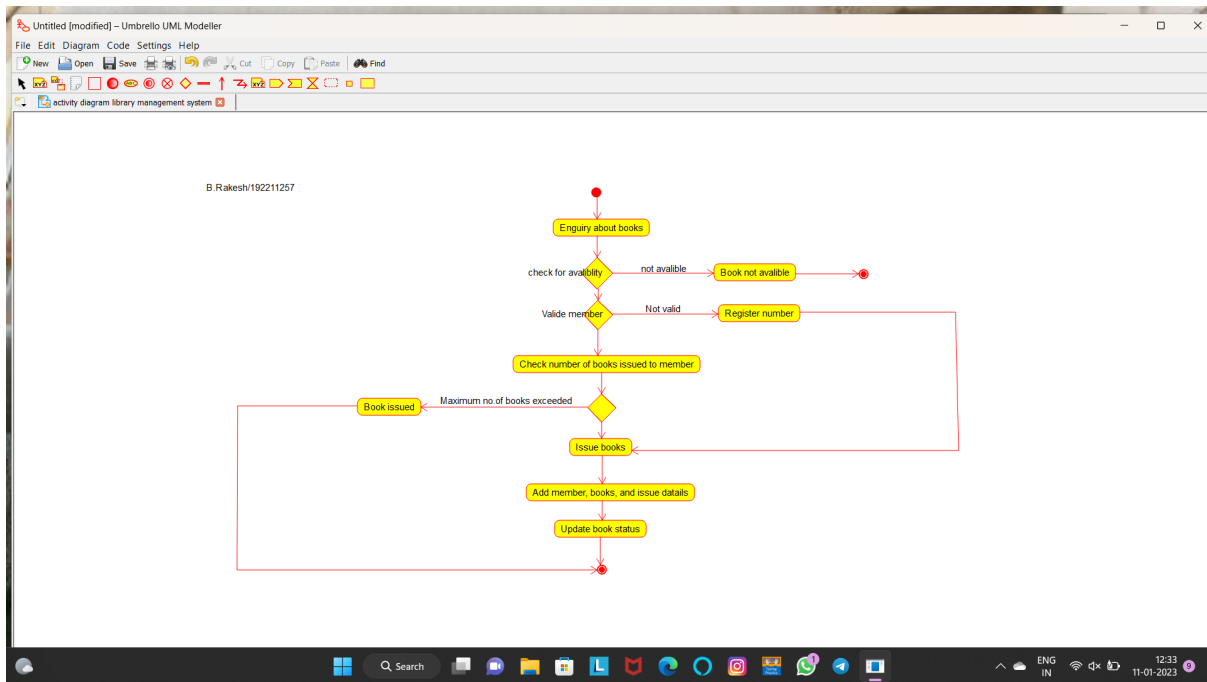


Result:Activity diagram for online voting system was successfully completed.

16. Draw a Activity diagram for Library Management System using CASE tools.

Aim:To draw a Activity diagram for Library Management system.

Software used:Umbrello.

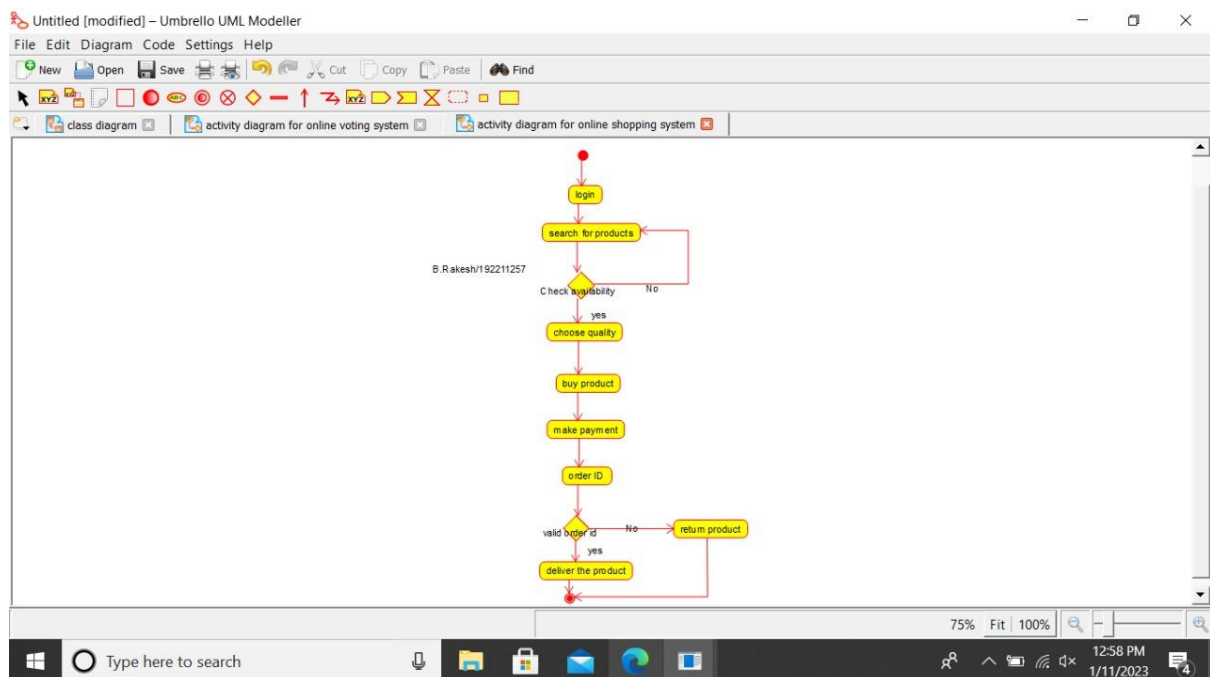


Result:Activity diagram for Library Management system was successfully completed.

17. Draw a Activity diagram for Online Shopping system using CASE tools.

Aim:To draw a Activity diagram for online shopping system.

Software used:Umbrello.

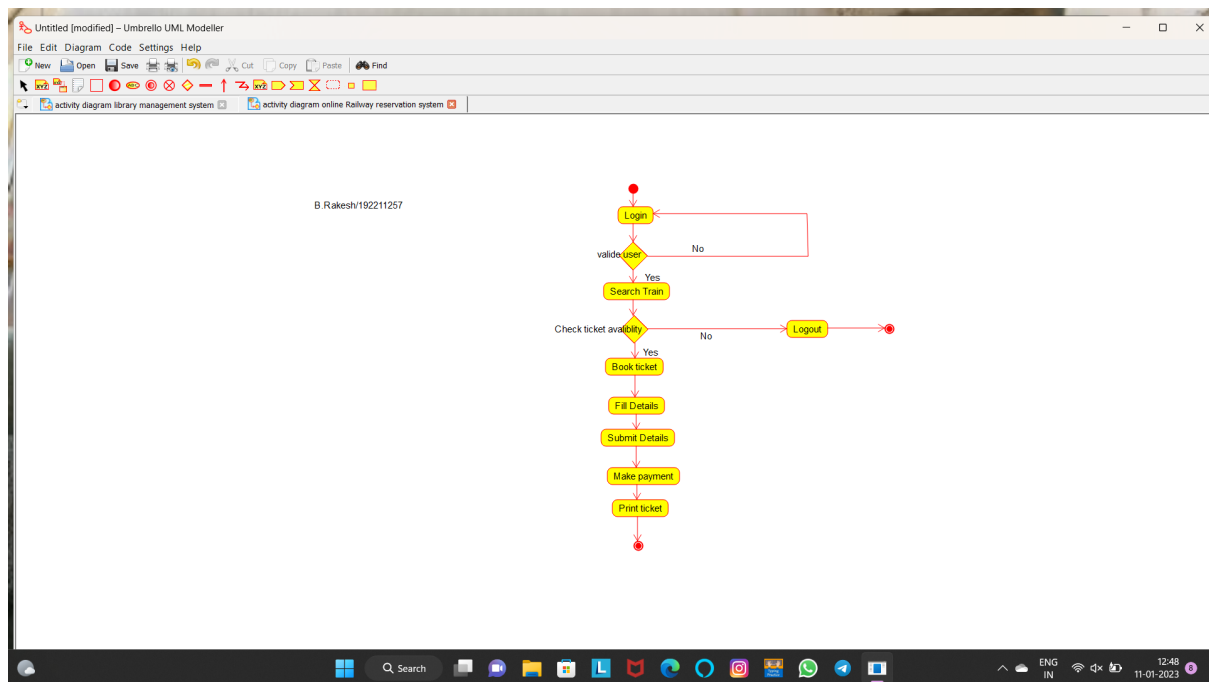


Result:Activity diagram for online Shopping system was successfully completed.

18. Draw a Activity diagram for Online Railway Reservation System using CASE tools.

Aim:To draw a Activity diagram for online Railway Reservation system.

Software used:Umbrello.

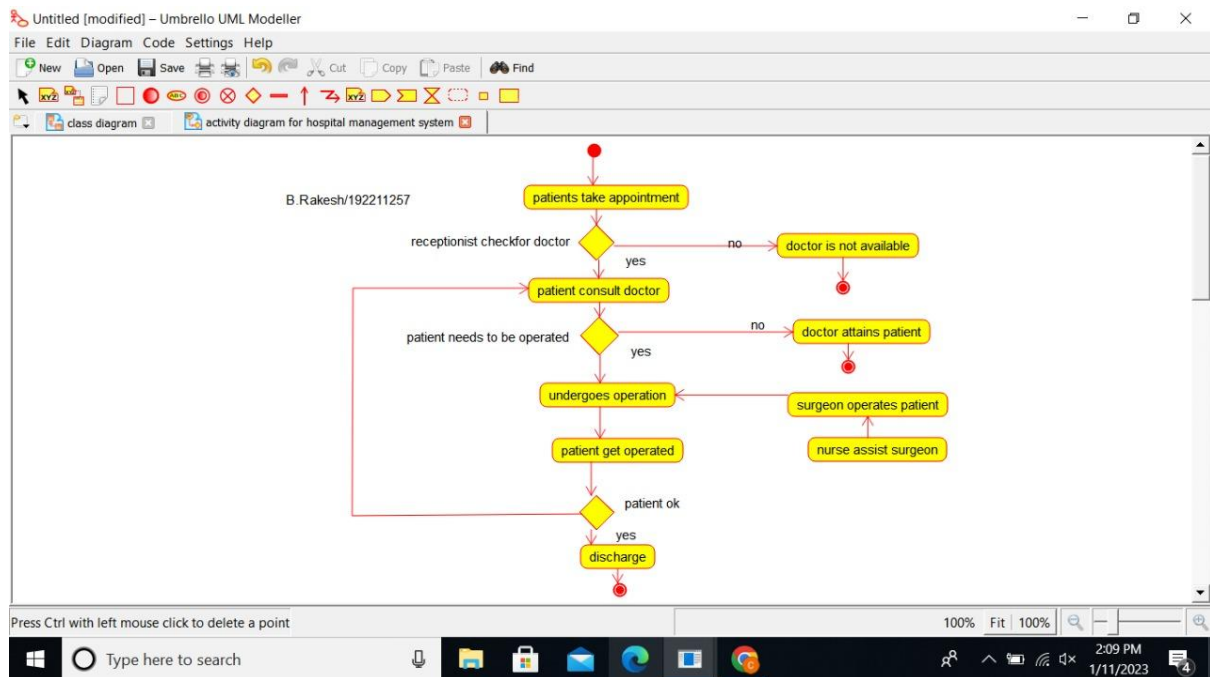


Result:Activity diagram for online Railway Reservation system was successfully completed.

19. Draw a Activity diagram for Hospital Management System using CASE tools.

Aim:To draw Activity diagram for Hospital Management system.

Software used:Umbrello.

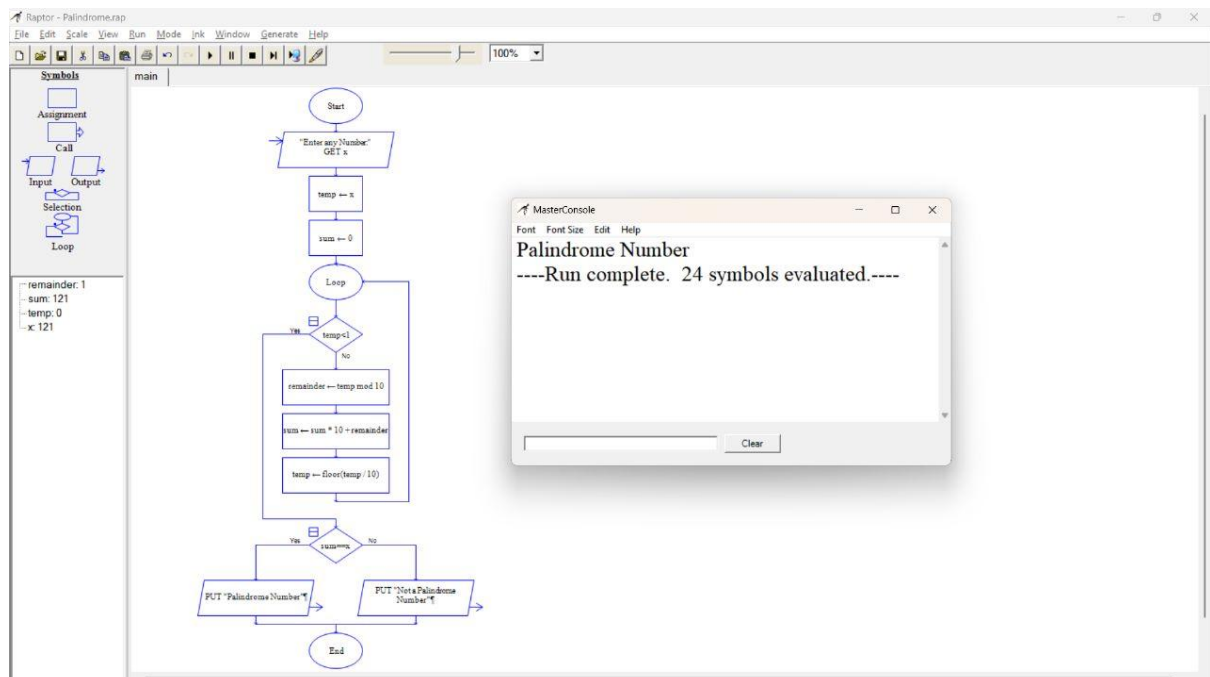


Result:Activity diagram for Hospital Management was successfully completed.

20. Using Raptor- Draw the flowchart to check whether the given number is a palindrome or not.

Aim:To draw Raptor diagram the flowchart to check weather the given number is a palindrome or not.

Software used:Raptor.

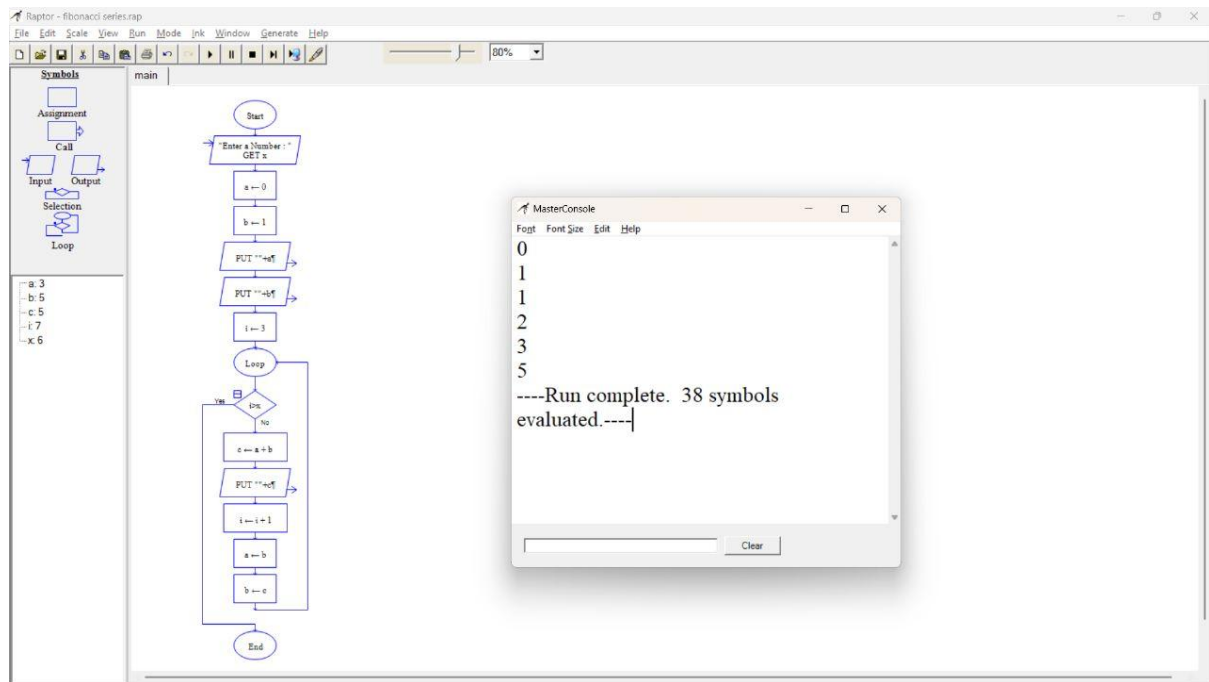


Result:Flowchart to check weather the given number is a palindrome or not was completed and output verified.

21. Using Raptor- Draw and validate the flowchart to calculate Fibonacci series.

Aim:To draw raptor draw and validate the flowchart to calculate Fibonacci series.

Software used:Rapoter.

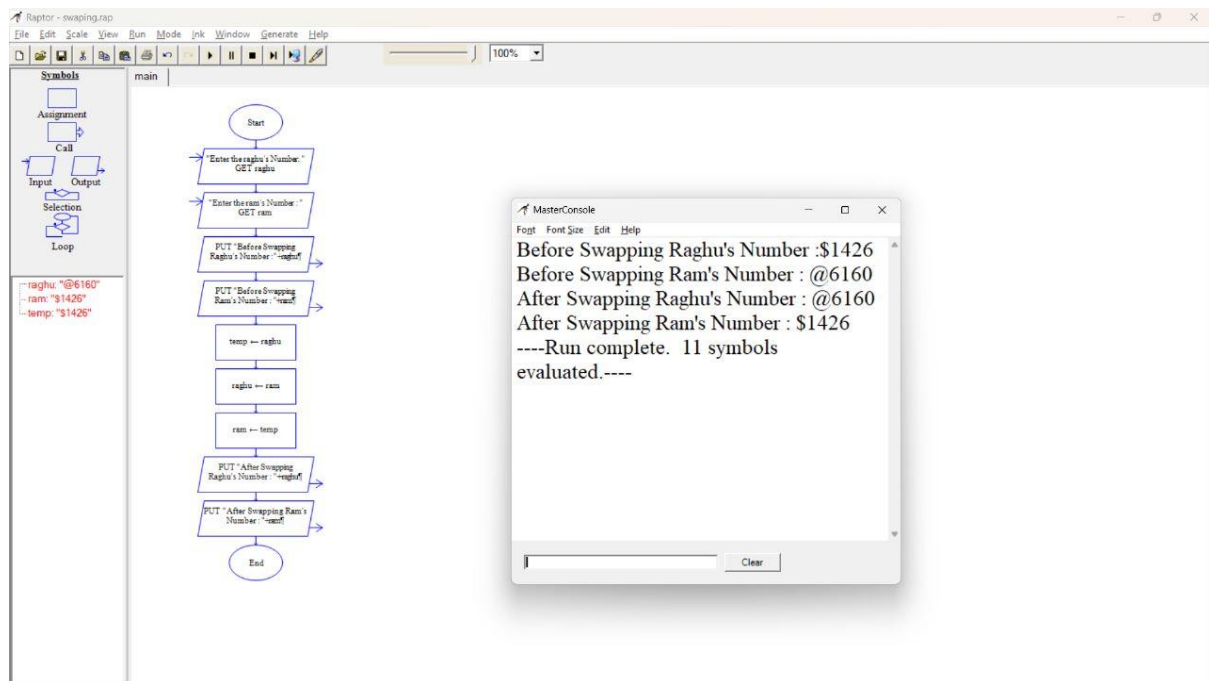


Result:Flowchart to calculate Fibonacci series was completed and output verified.

22. Using Raptor – Draw and validate the flowchart to swap two characters.

Aim:To draw Raptor draw and calculated and validate the flowchart to swap two characters.

Software used:Raptor.

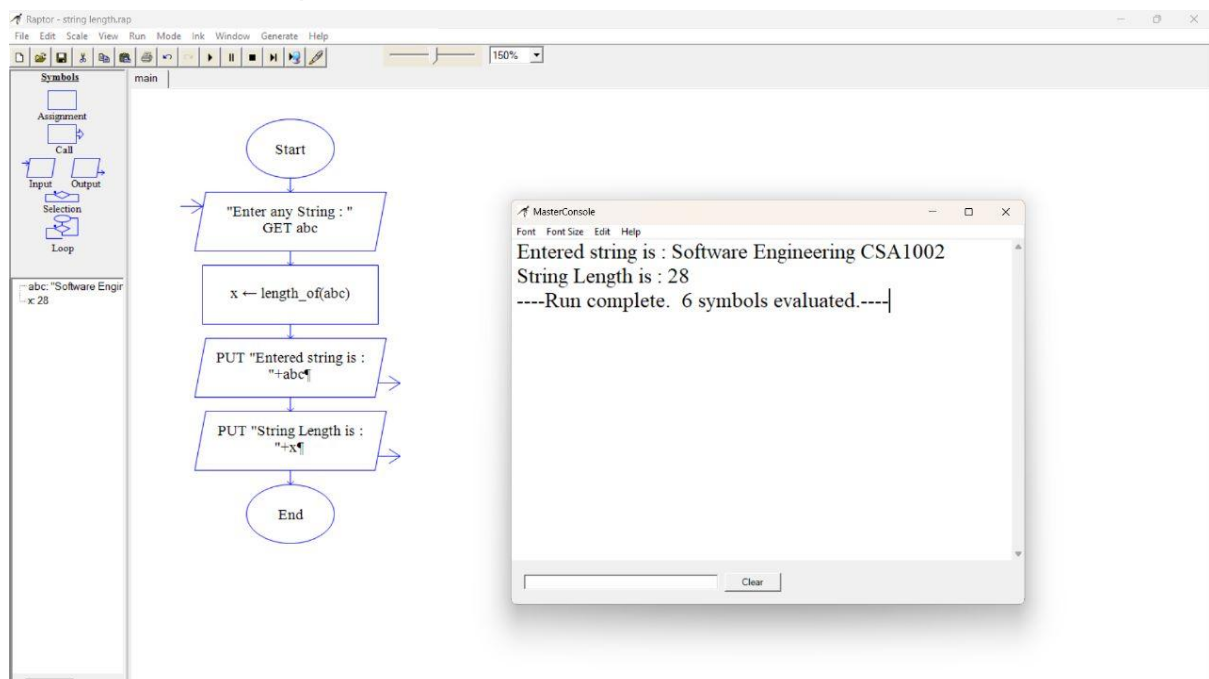


Result:Flowchart to swap two characters was completed and output verified.

23. Using Raptor – Draw the flowchart to display the length of the string.

Aim:To draw Raptor draw the flowchart to display the length of the string.

Software used:Raptor.

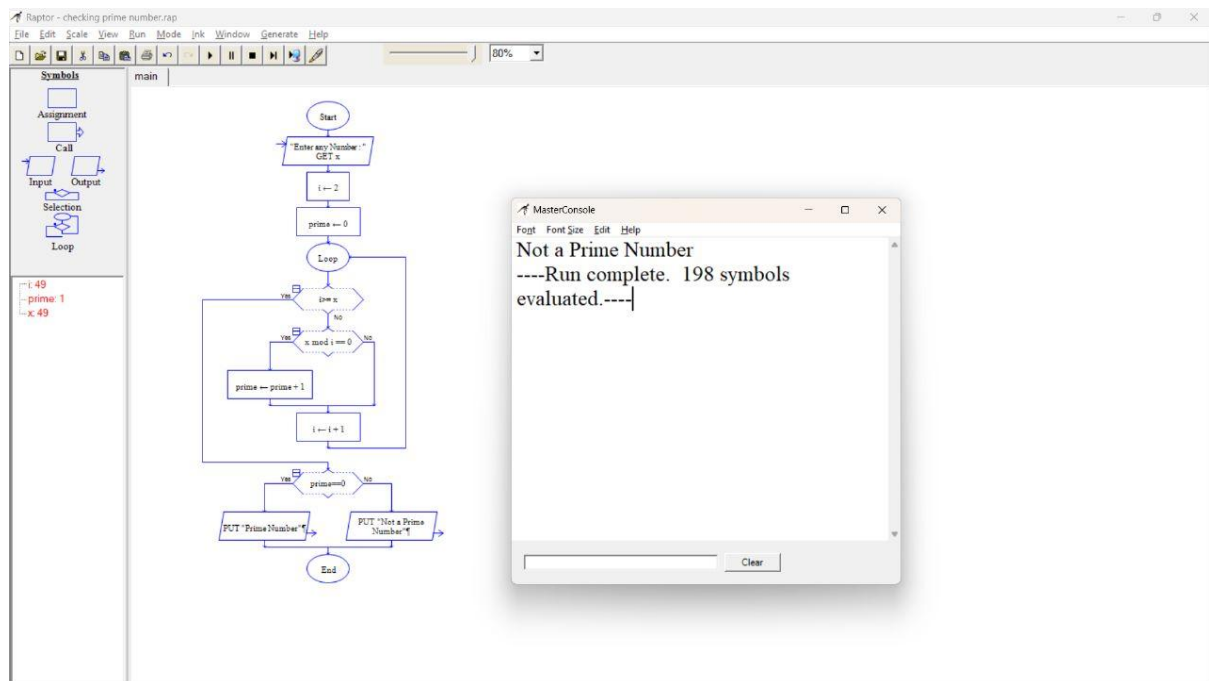


Result:Flowchart to display the length of the string was completed and output verified.

24. Using Raptor – Draw the flowchart to find whether the given number is prime or not.

Aim: To draw Raptor draw the flowchart to find whether the given number is prime or not.

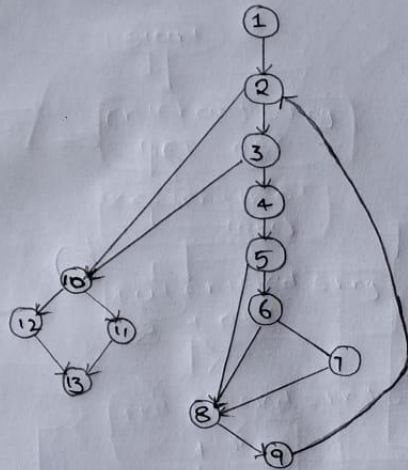
Software used: Raptor.



Result: Flowchart to find whether the given number is prime or not was completed and output is verified.

25. Find Cyclomatic Complexity for a graph having number of edges as 17, number of nodes as 13 and number of predicate nodes in the flow graph as 5.

25 find cyclomatic complexity for a graph having number of edges as 12, number of nodes as 13 and number of predicate node is the following graph as 5



$$V(G) = 6 \text{ regions}$$

$$V(G) = 17 \text{ regions} - 13 \text{ nodes} + 2 = 6 \quad \left. \begin{array}{l} V(G) = E - N + 2 \\ V(G) = P + 1 \end{array} \right\}$$

$$V(G) = 5 \text{ Predicate nodes} + 1 = 6$$

we expected to specify six paths

Path 1: 1-2-10-11-13

Path 2: 1-2-3-4-5-6-8-9-2-...

Path 3: 1-2-3-10-11-13

Path 4: 1-2-3-4-5-8-9-2-...

Path 5: 1-2-3-4-5-6-8-9-2-...

Path 6: 1-2-3-4-5-6-7-8-9-2-...

The ellipsis (...) following path 4, 5 and 6 indicates that any path through the remainder of the control structure is acceptable.