Atma Ram Sanatan Dharma College
University of Delhi

Artificial Intelligence

Practical File

Paper Code:- (BHCS13)

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B.Sc (Hons) Computer Science

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Department of Computer Science

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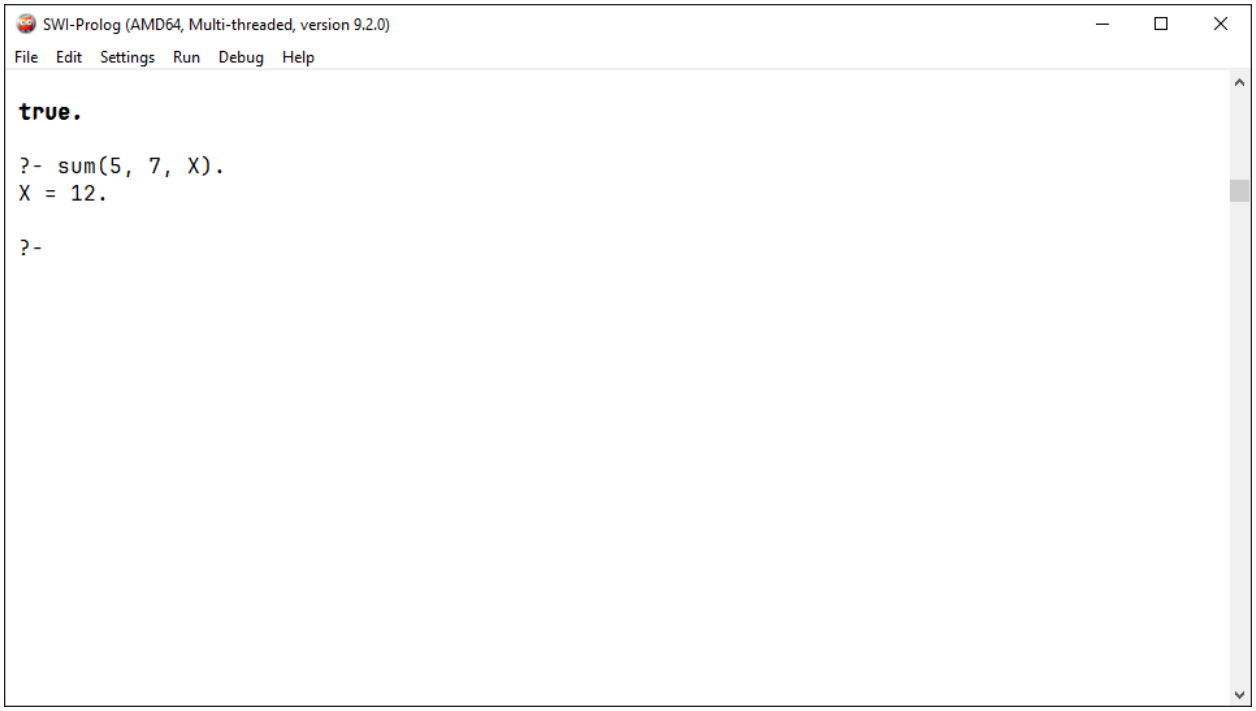
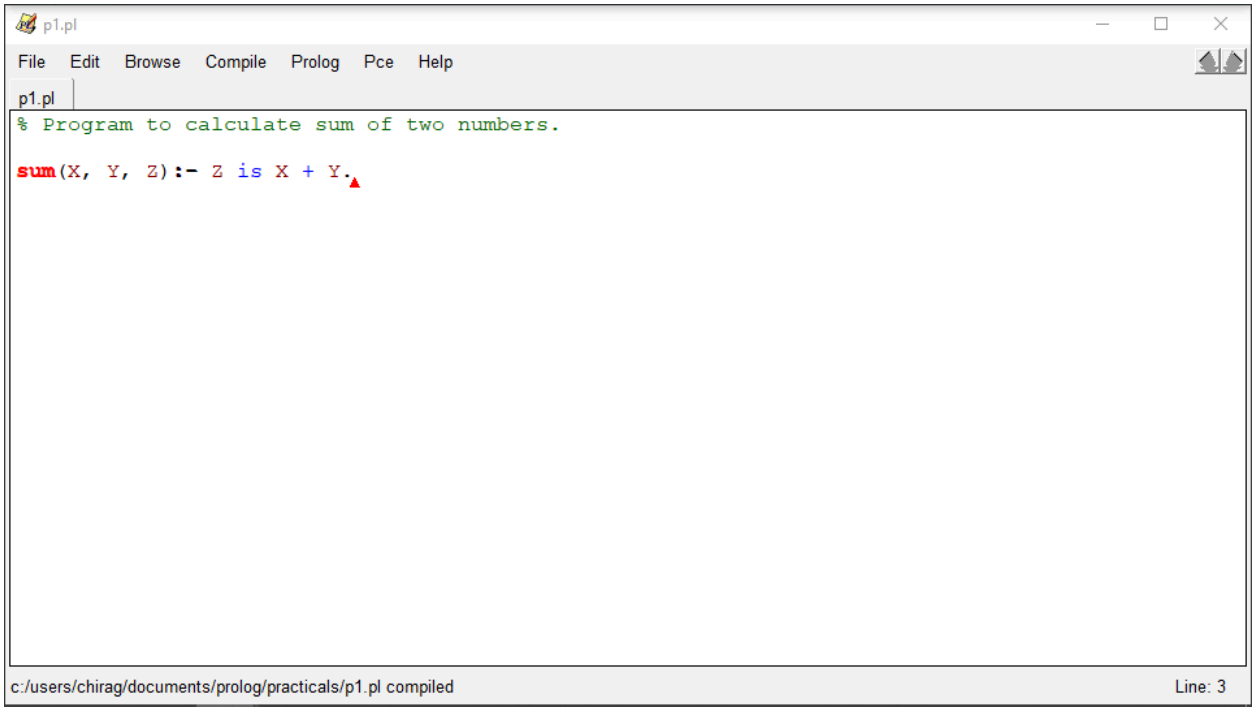
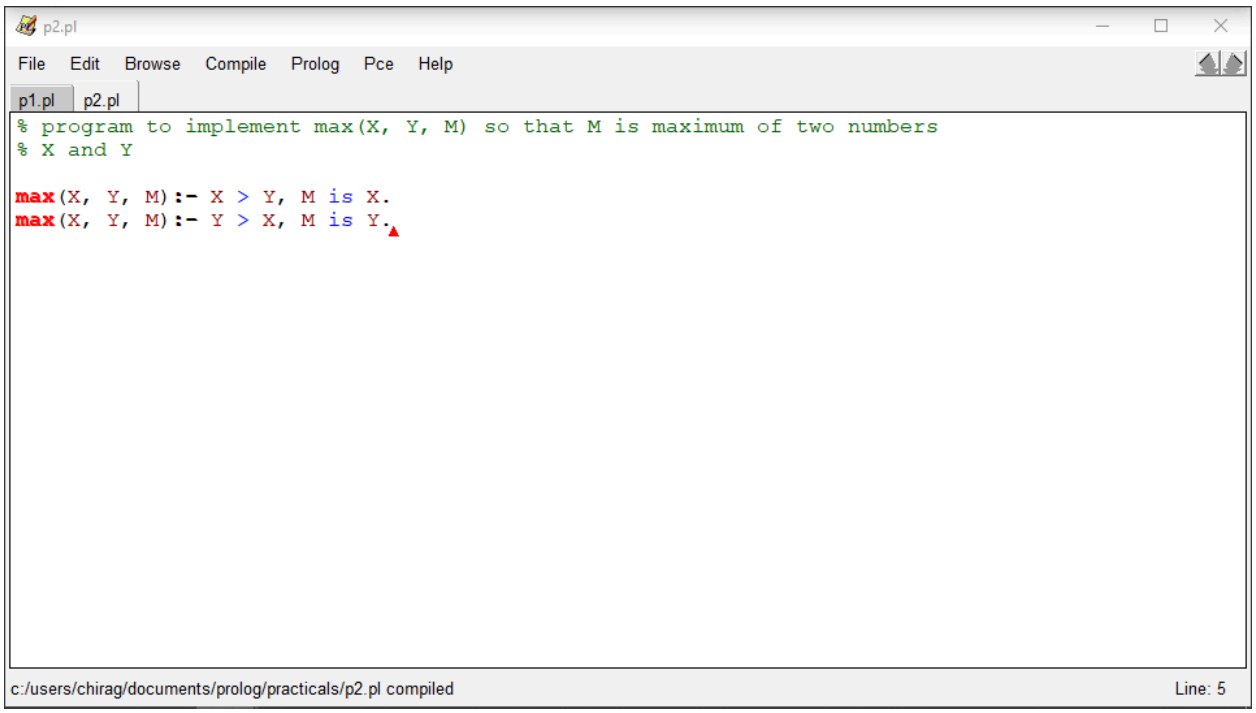
Q1. Write a prolog program to calculate the sum of two numbers.

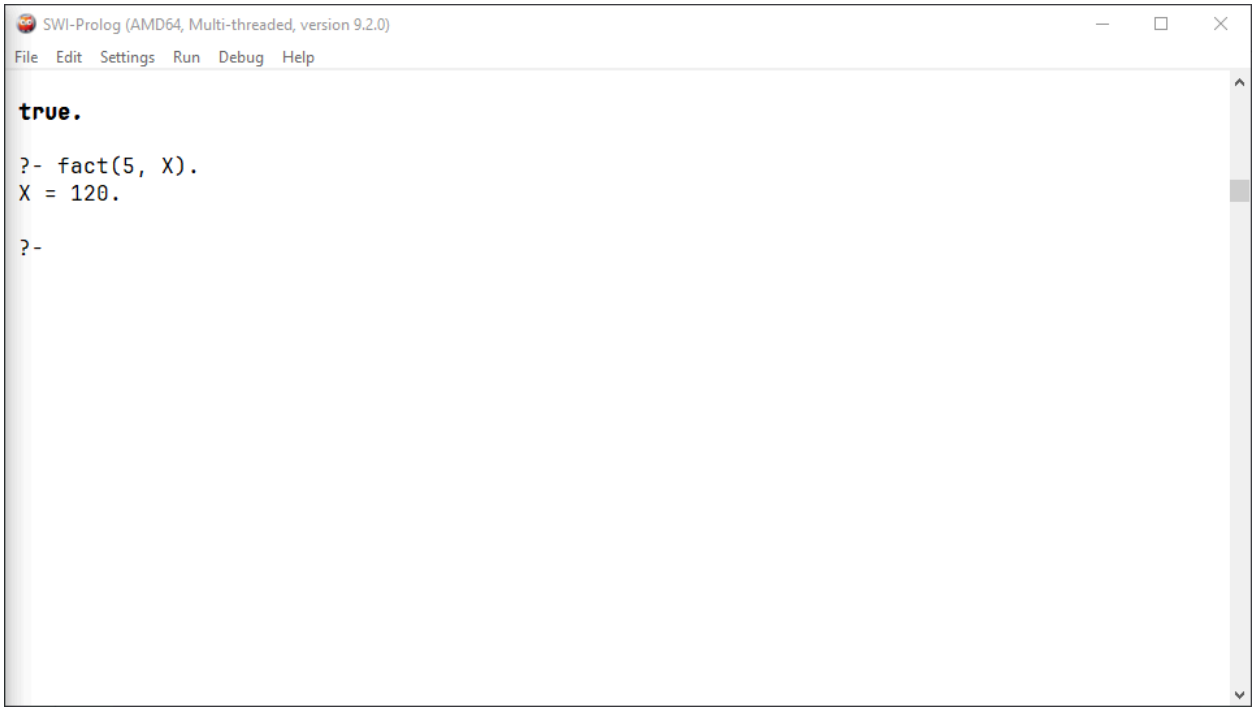


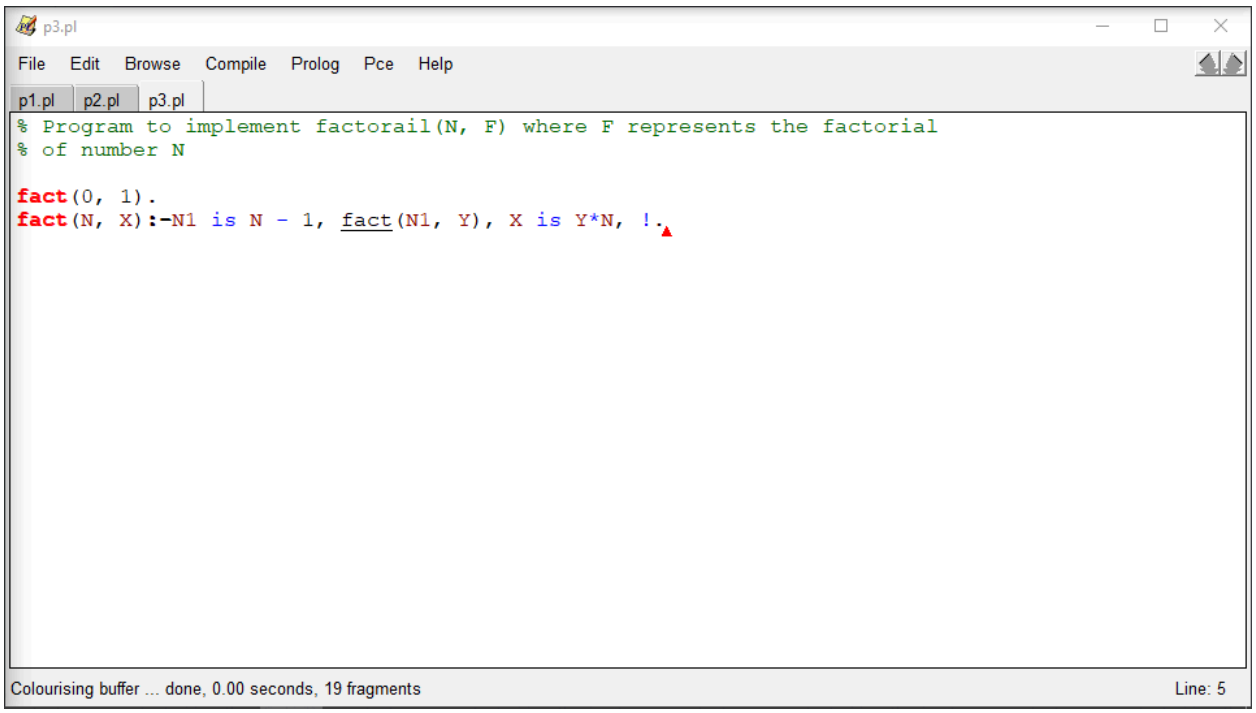


Q2. Write a Prolog program to implement max(X, Y, M) so that M is the maximum of two numbers X and Y.

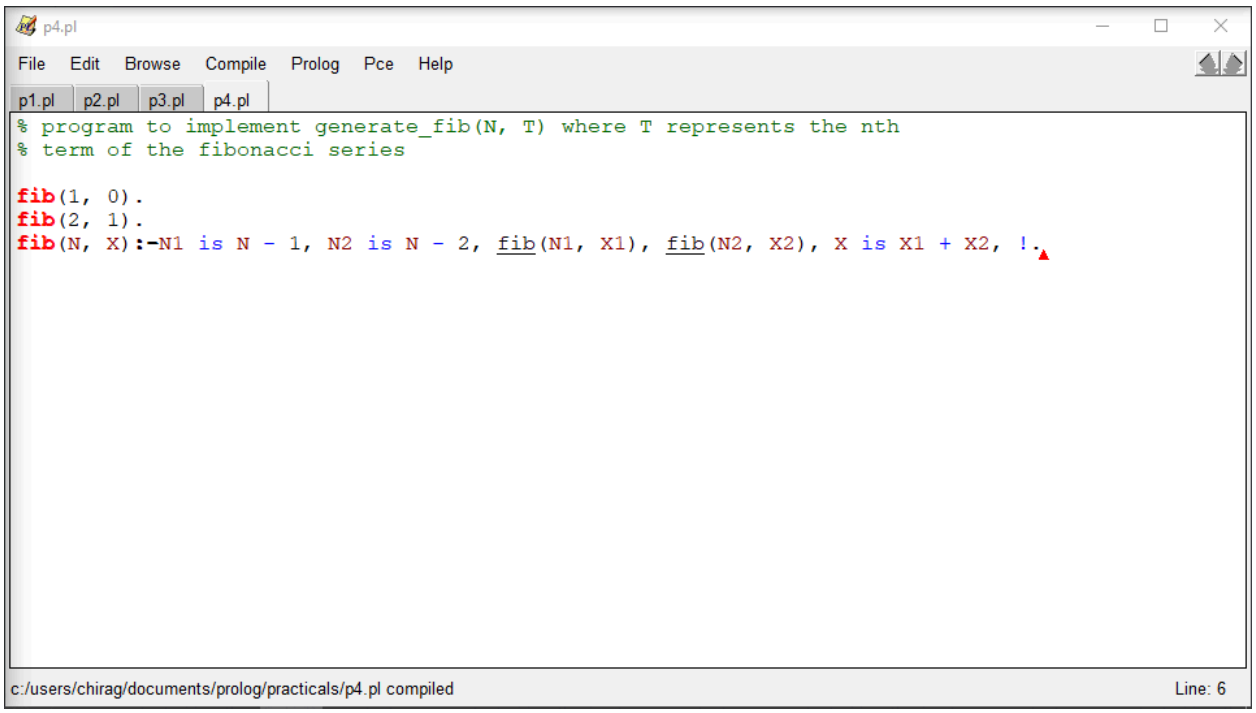


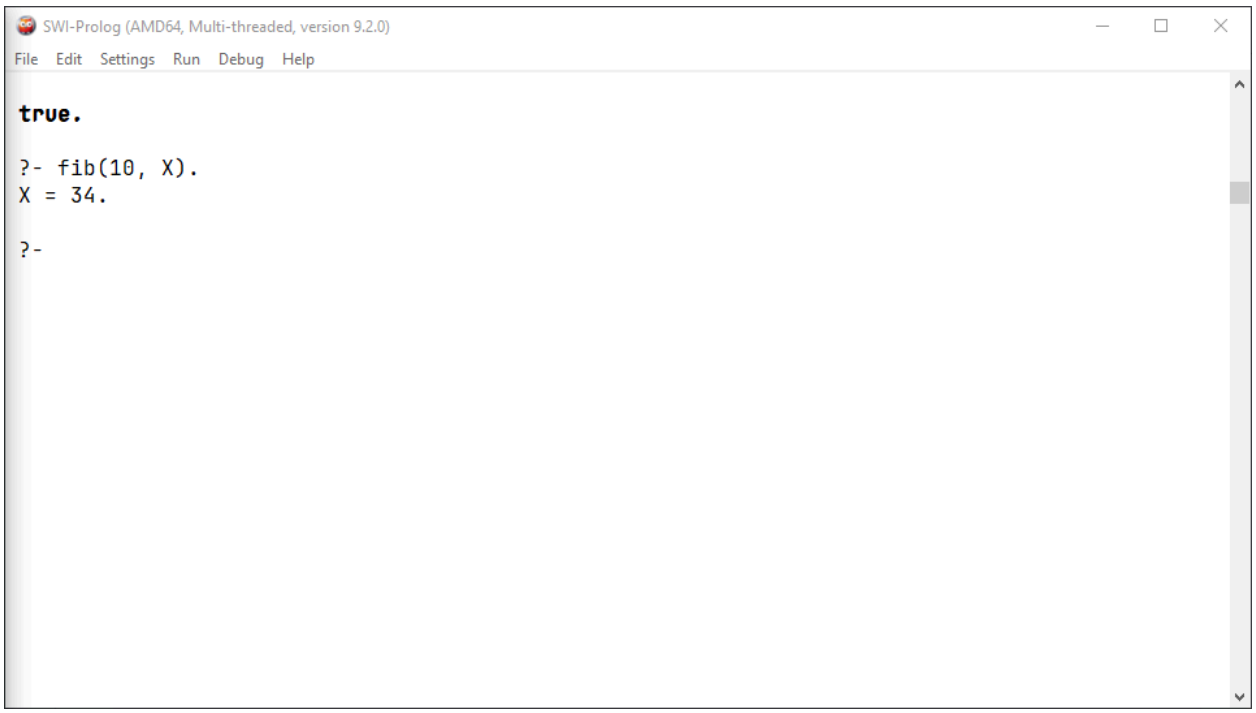
Q3. Write a program in PROLOG to implement factorial (N, F) where F represents the factorial of a number N.



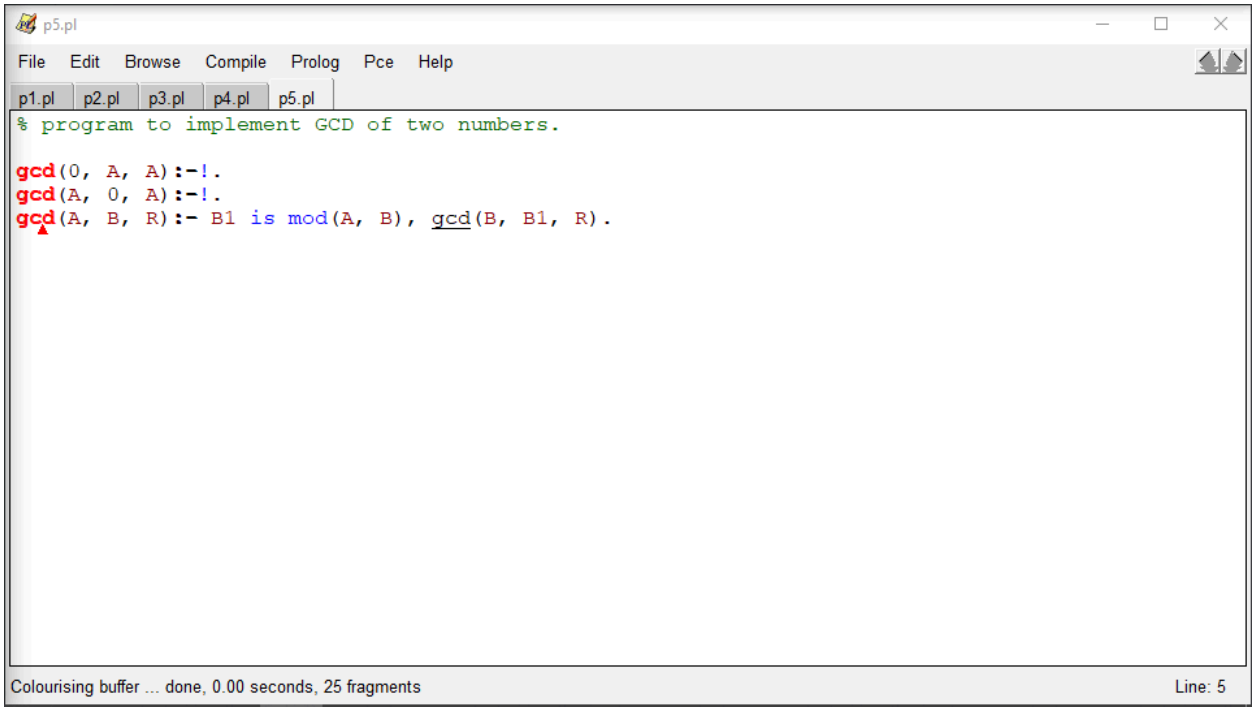


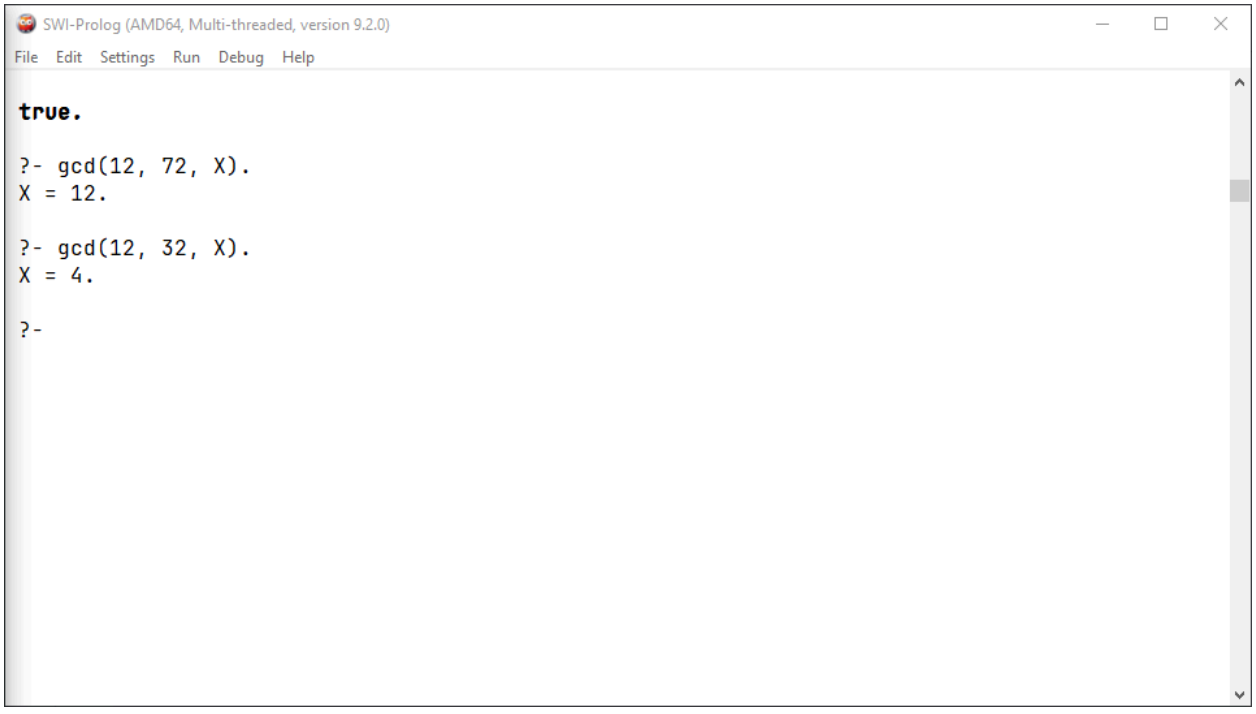
Q4. Write a program in PROLOG to implement generate_fib(N,T) where T represents the Nth term of the fibonacci series.



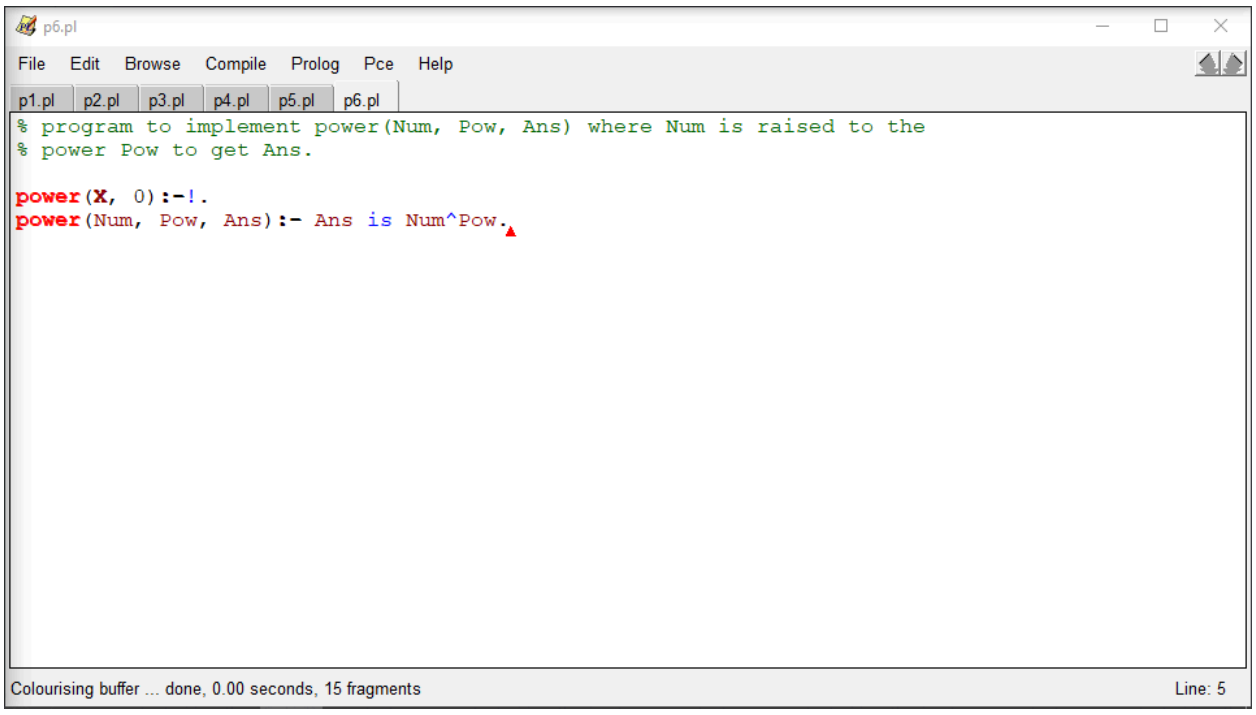


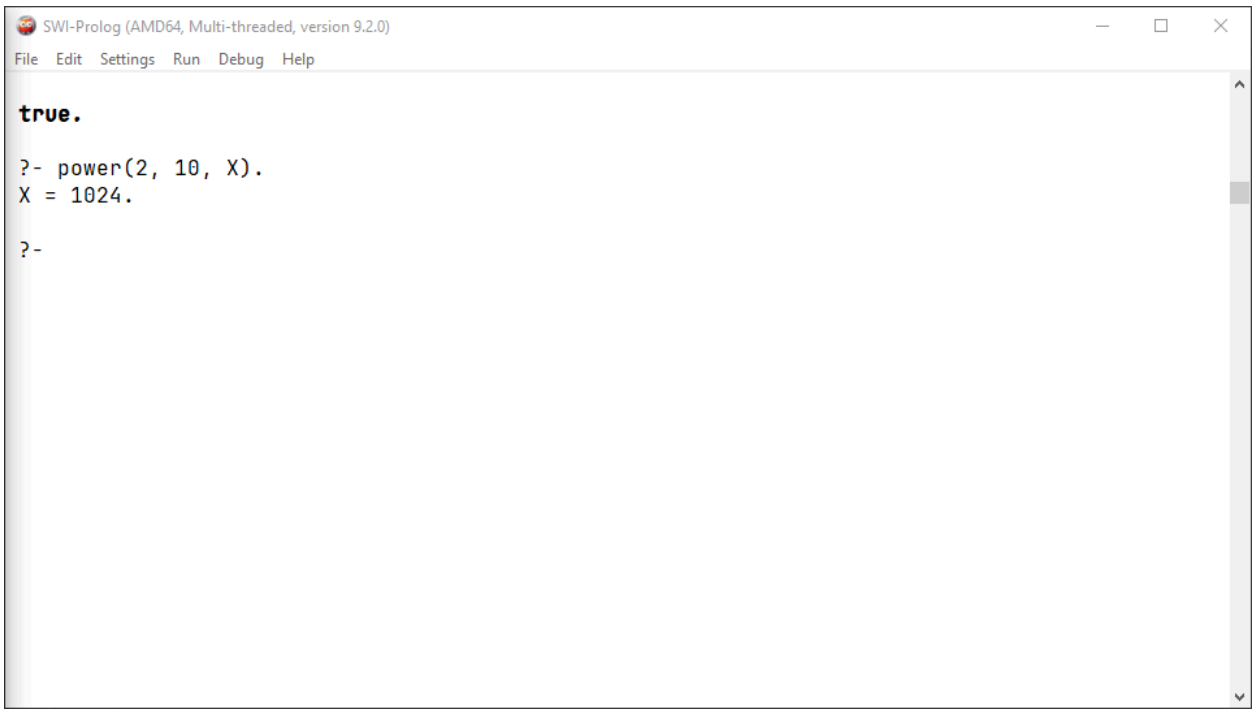
Q5. Write a Prolog program to implement GCD of two numbers.



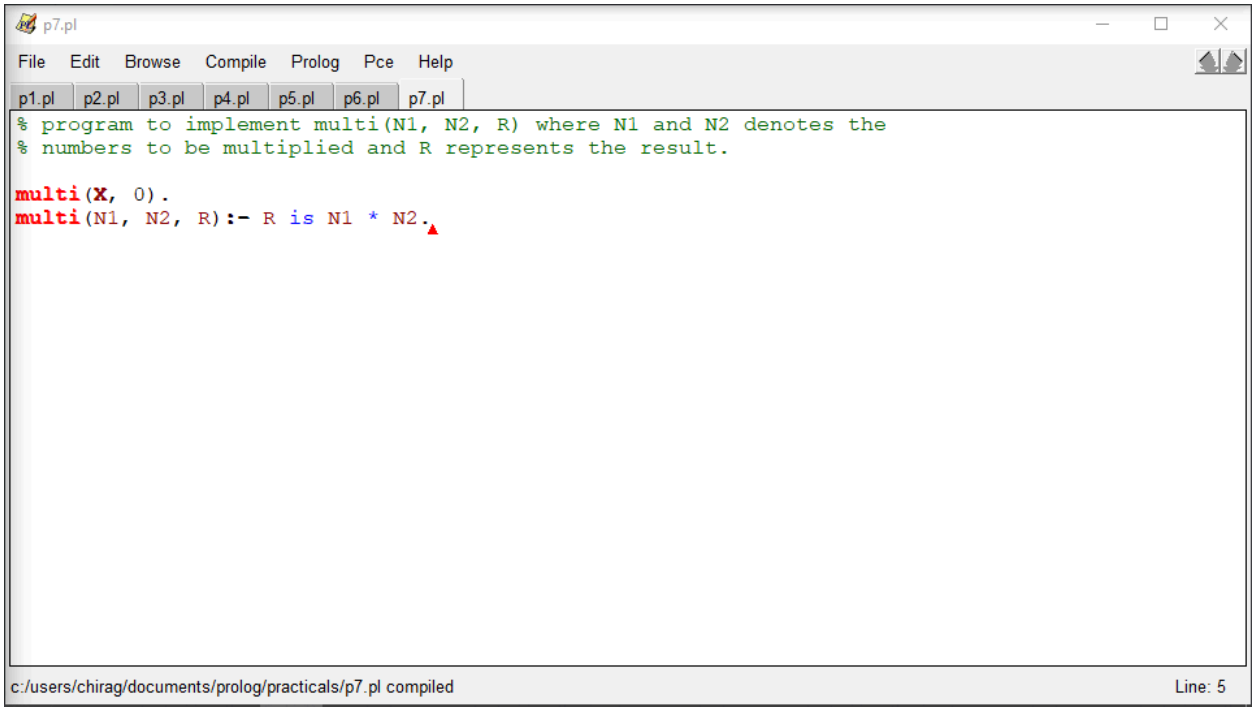


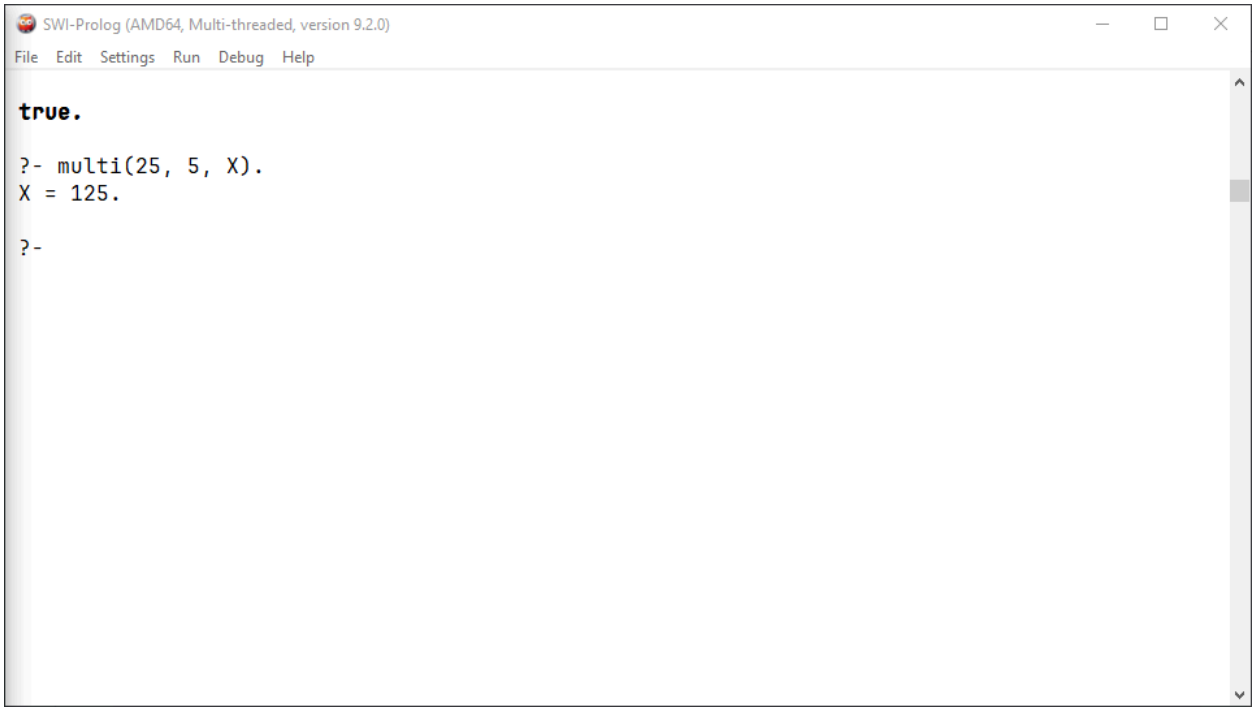
Q6. Write a Prolog program to implement power (Num,Pow, Ans) : where Num is raised to the power Pow to get Ans.



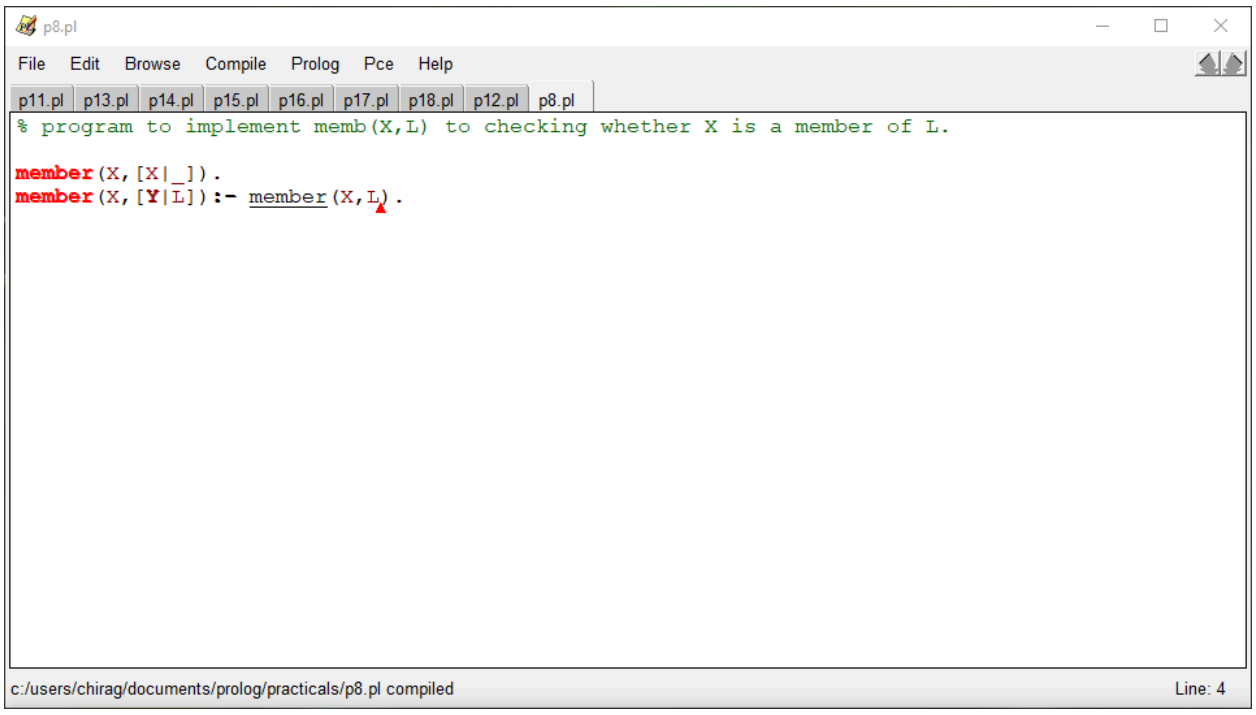


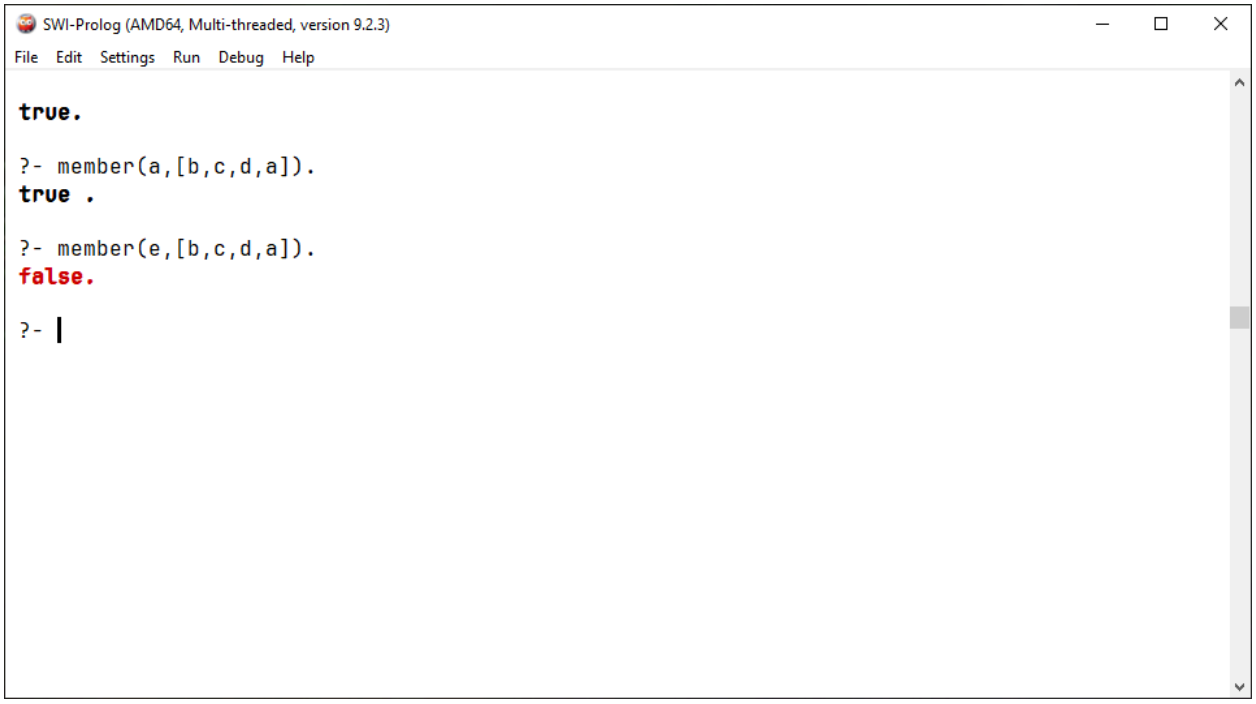
Q7. Prolog program to implement multi (N1, N2, R) : where N1 and N2 denotes the numbers to be multiplied and R represents the result.



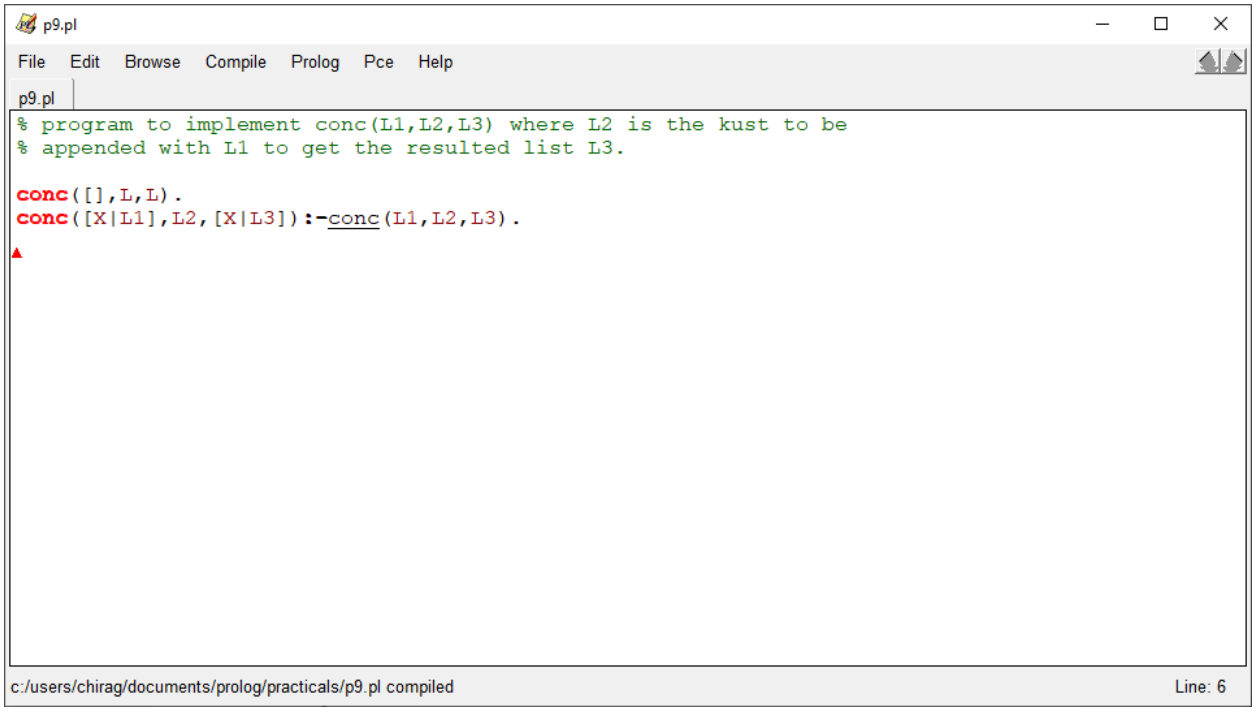


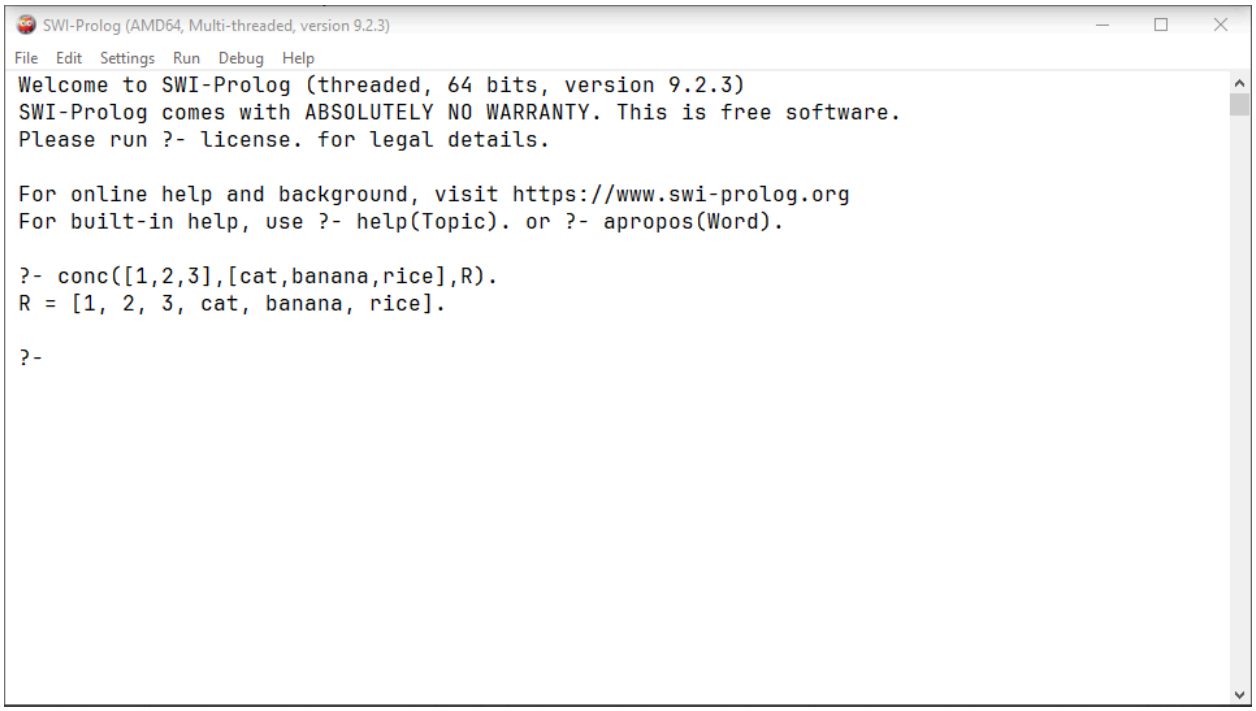
Q8. Write a prolog program to implement memb(X,L): to check whether Xis a member of L or not.



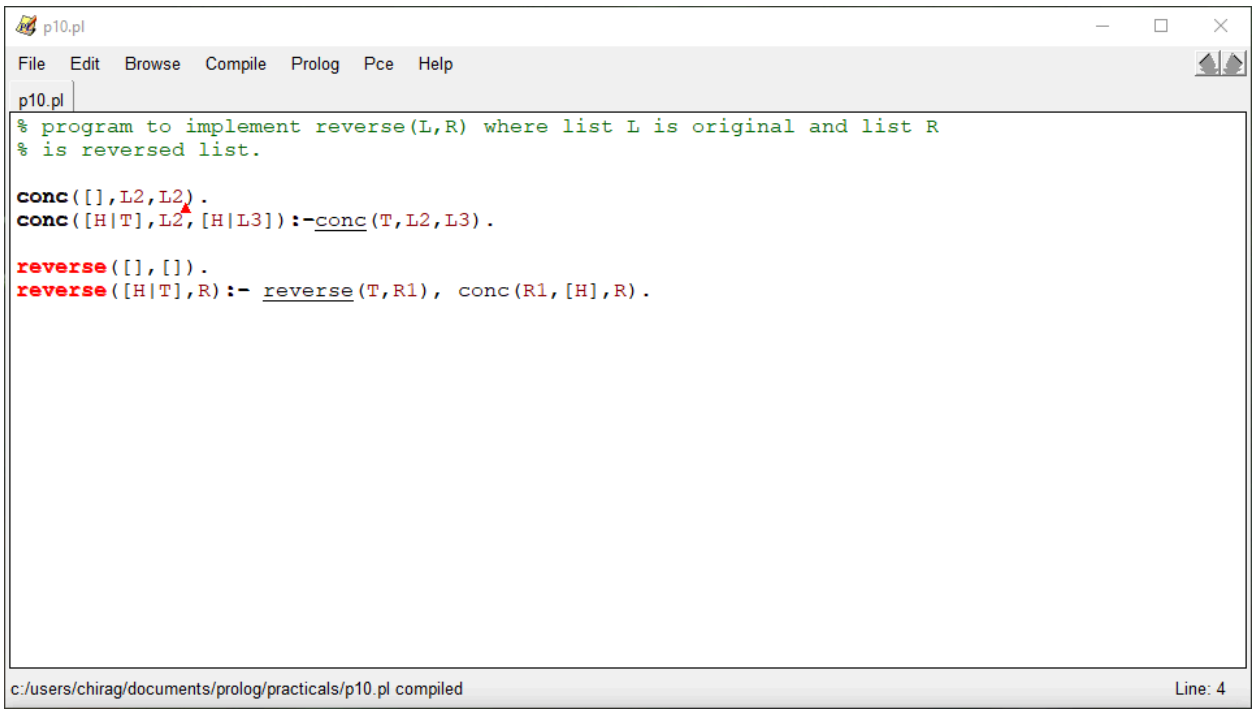


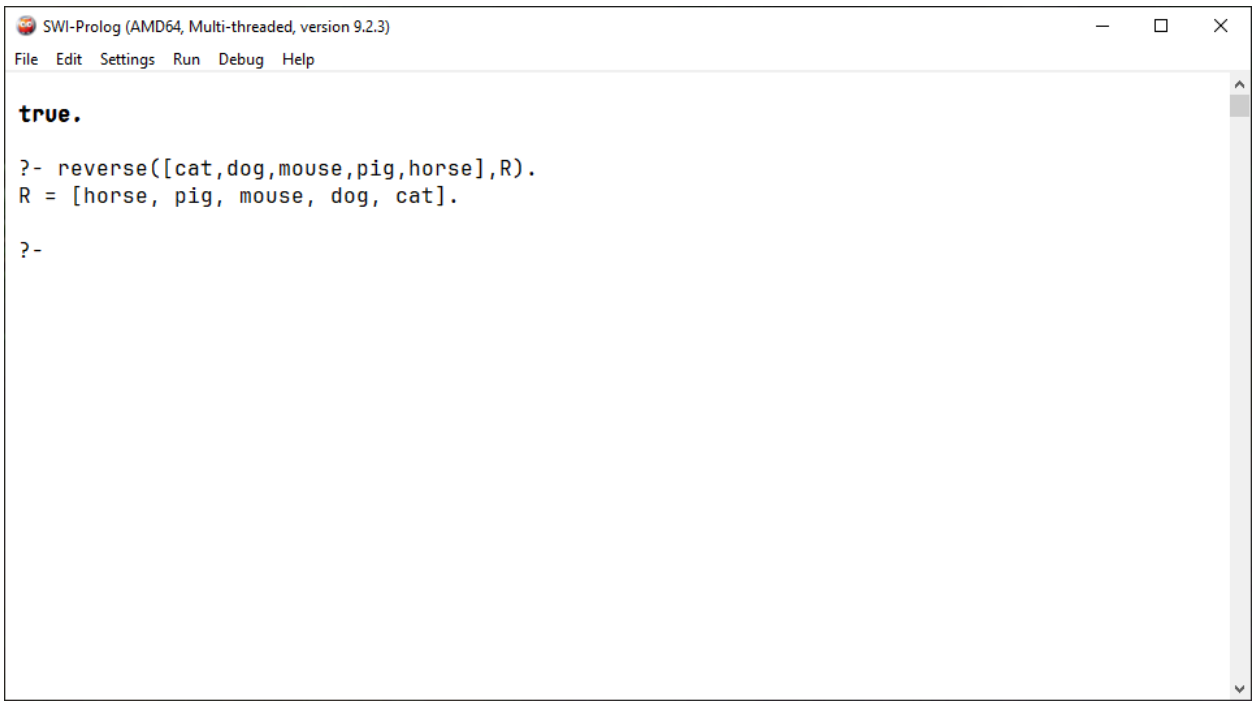
Q9. Write a prolog program to implement conc(L1,L2,L3) where L2 is the list to be appended with L1 to get the resulting list in L3.



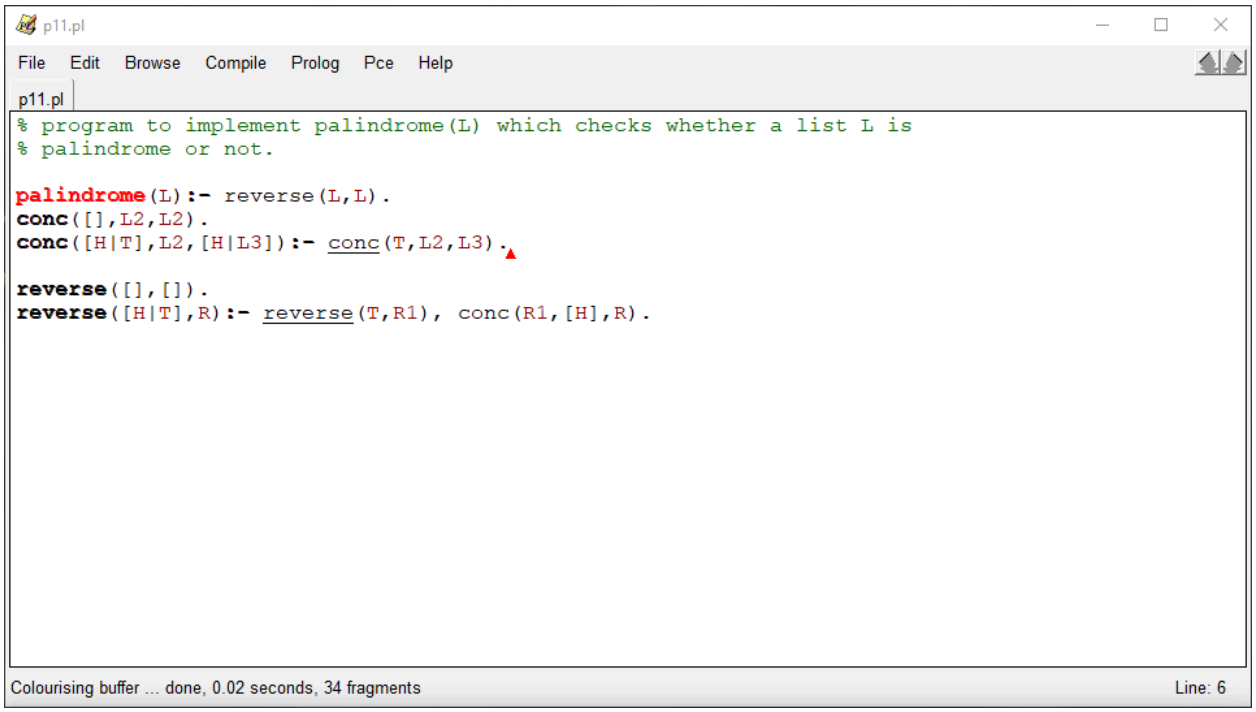


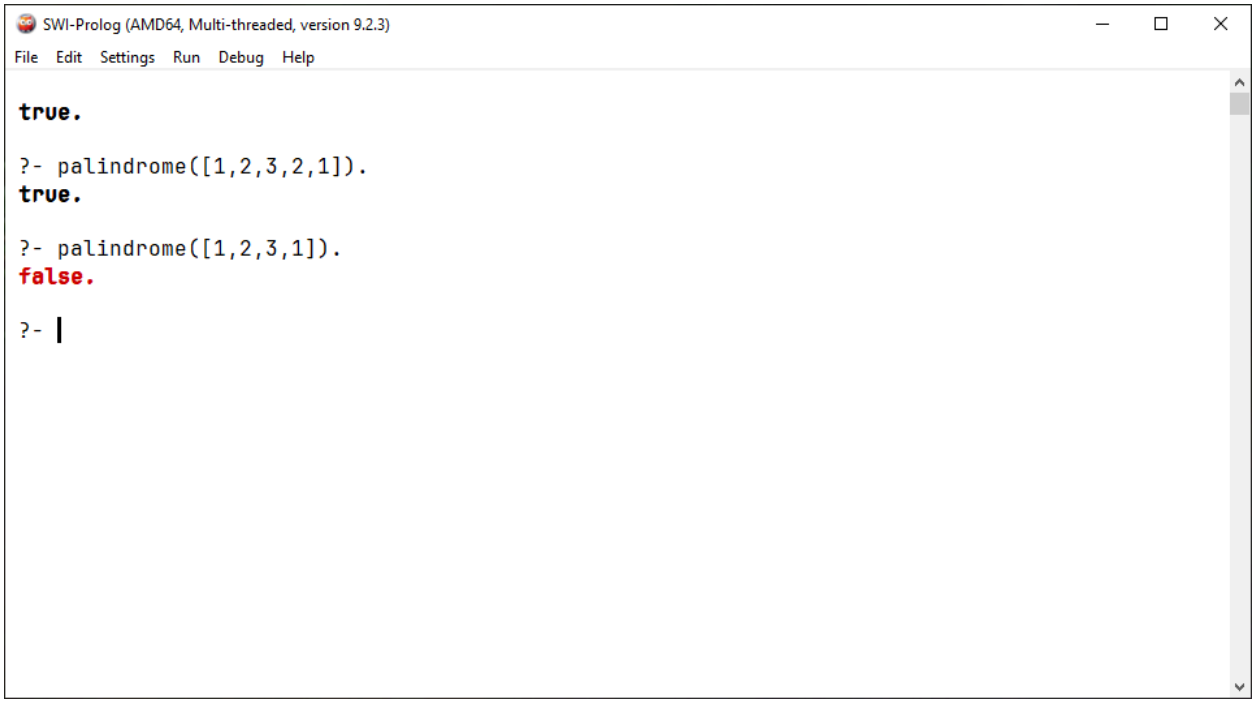
Q10. Write a prolog program to implement reverse(L.R) where List L is original and list R is reversed list.



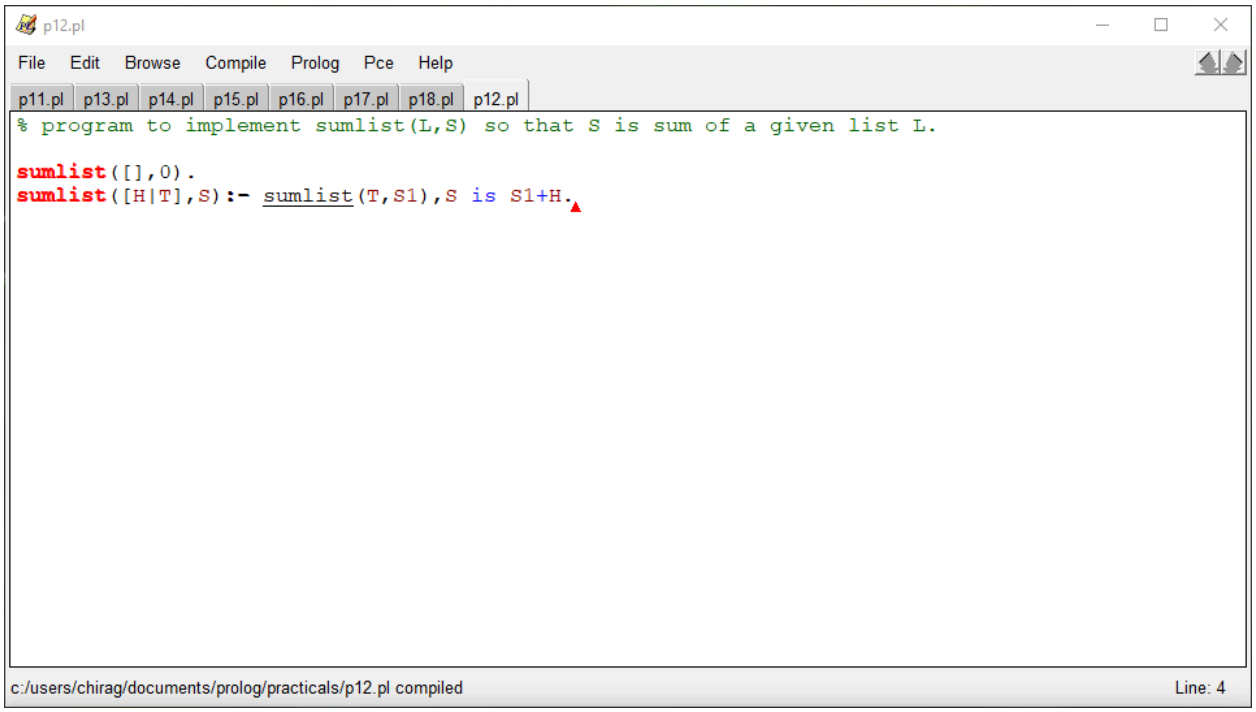


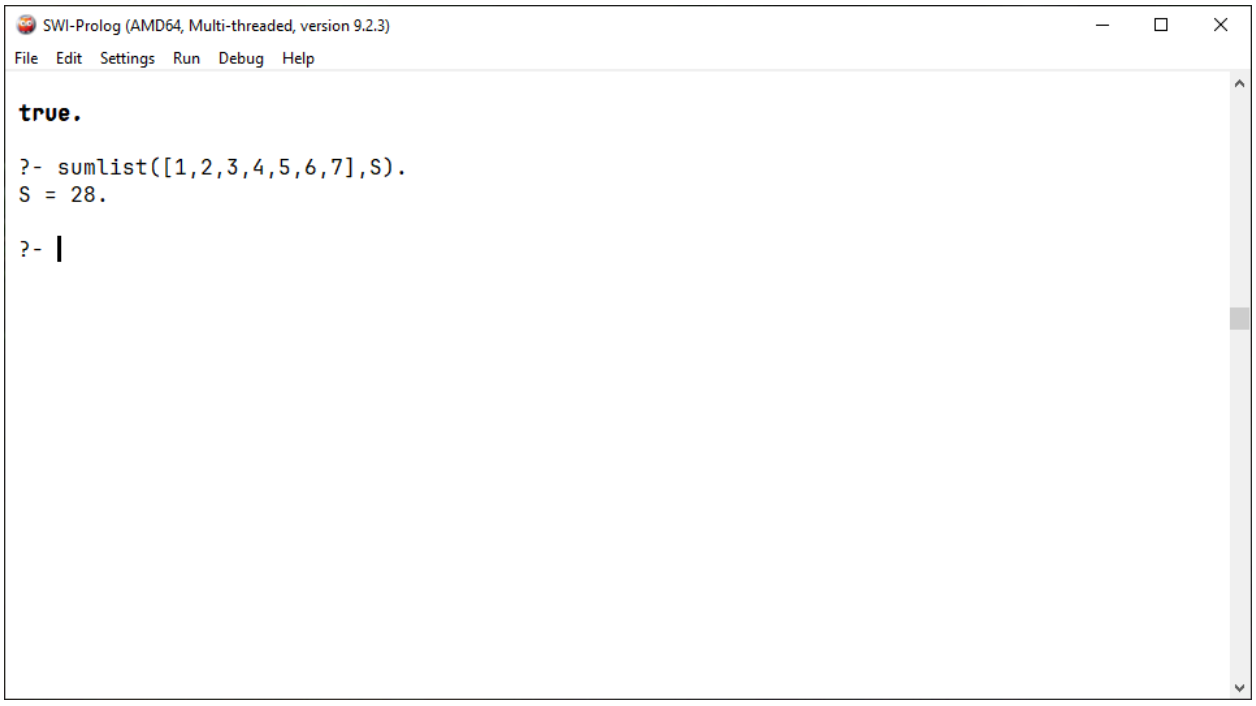
Q11. Write a programming prolog to implement palindrome(L) which checks whether a list L is palindrome or not.



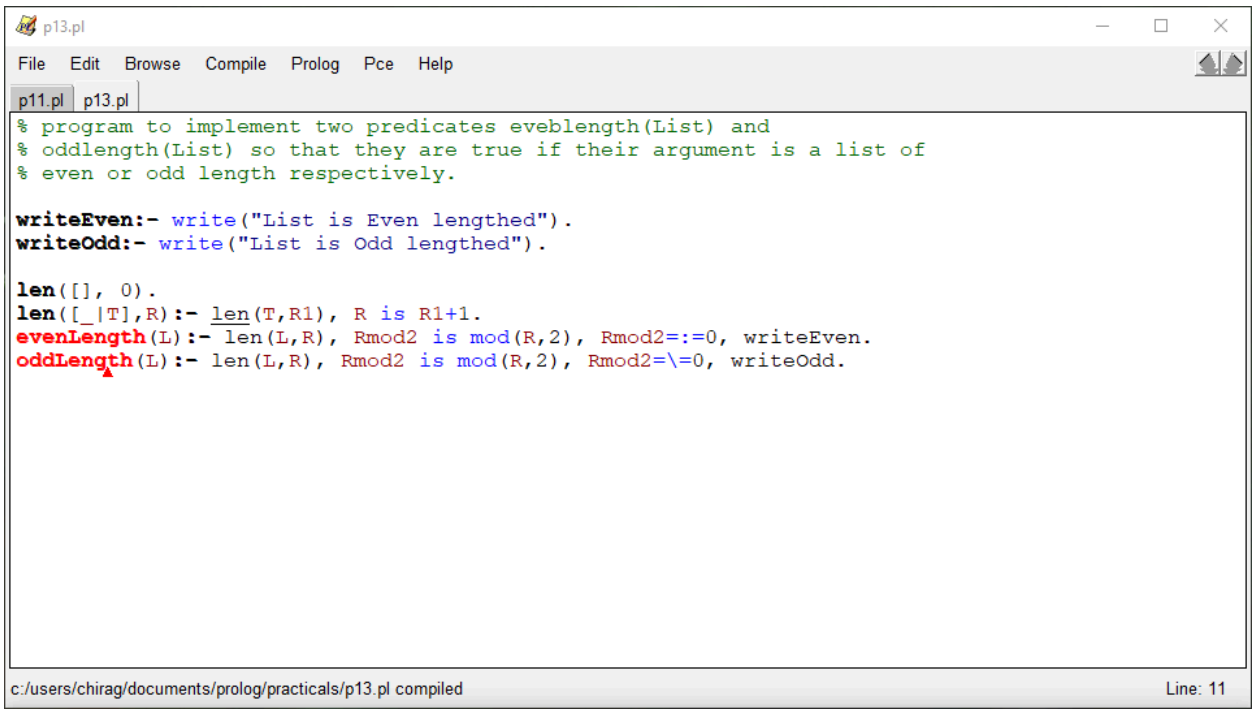


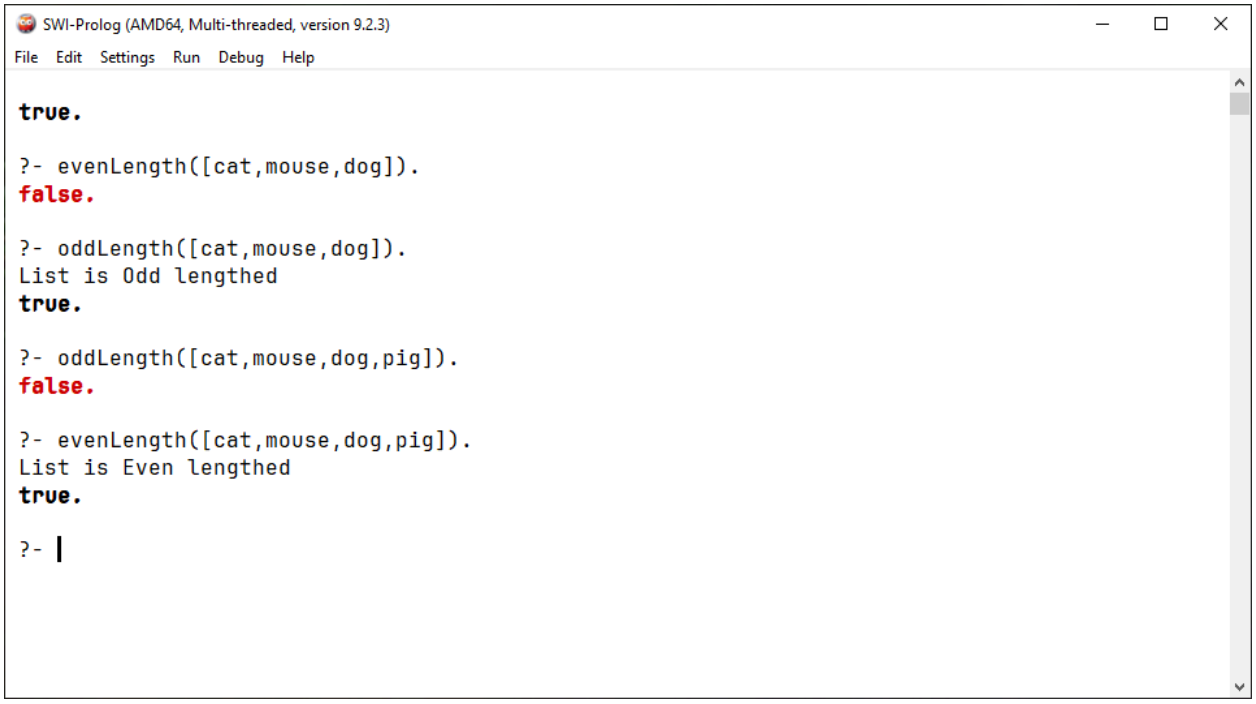
Q12. Write a prolog program to implement sumlist(L,S) so that S is the sum of a given list L.



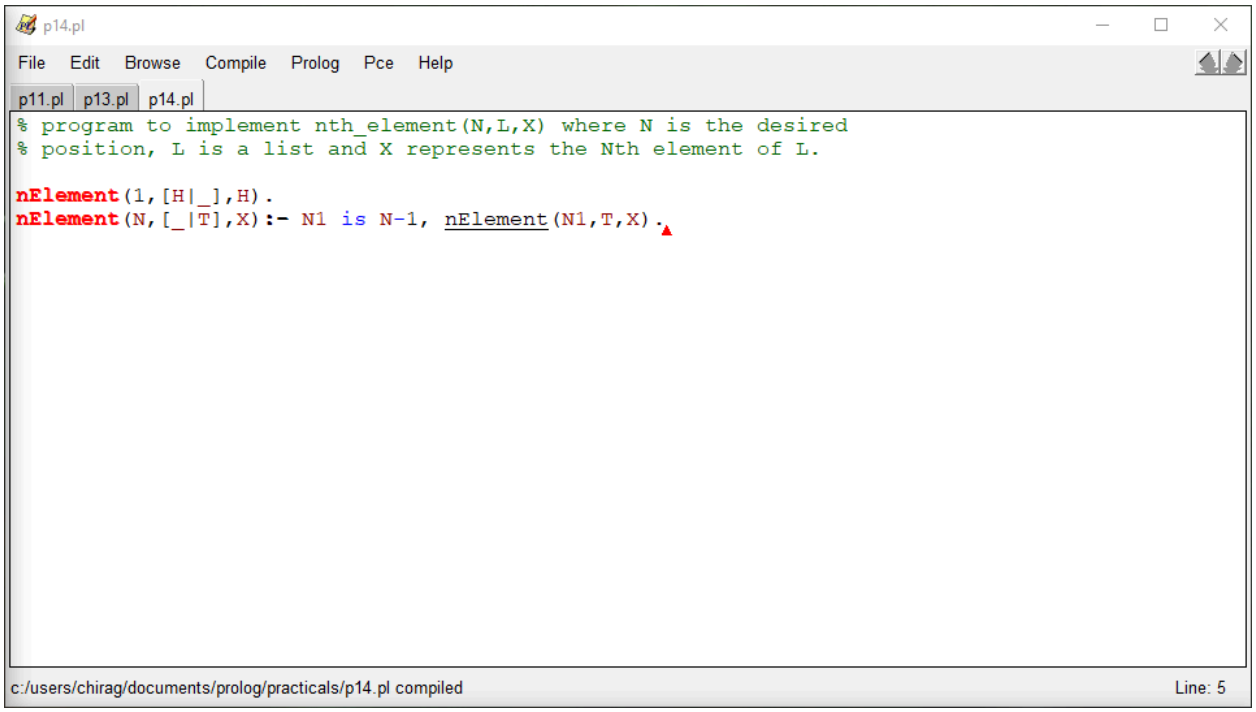


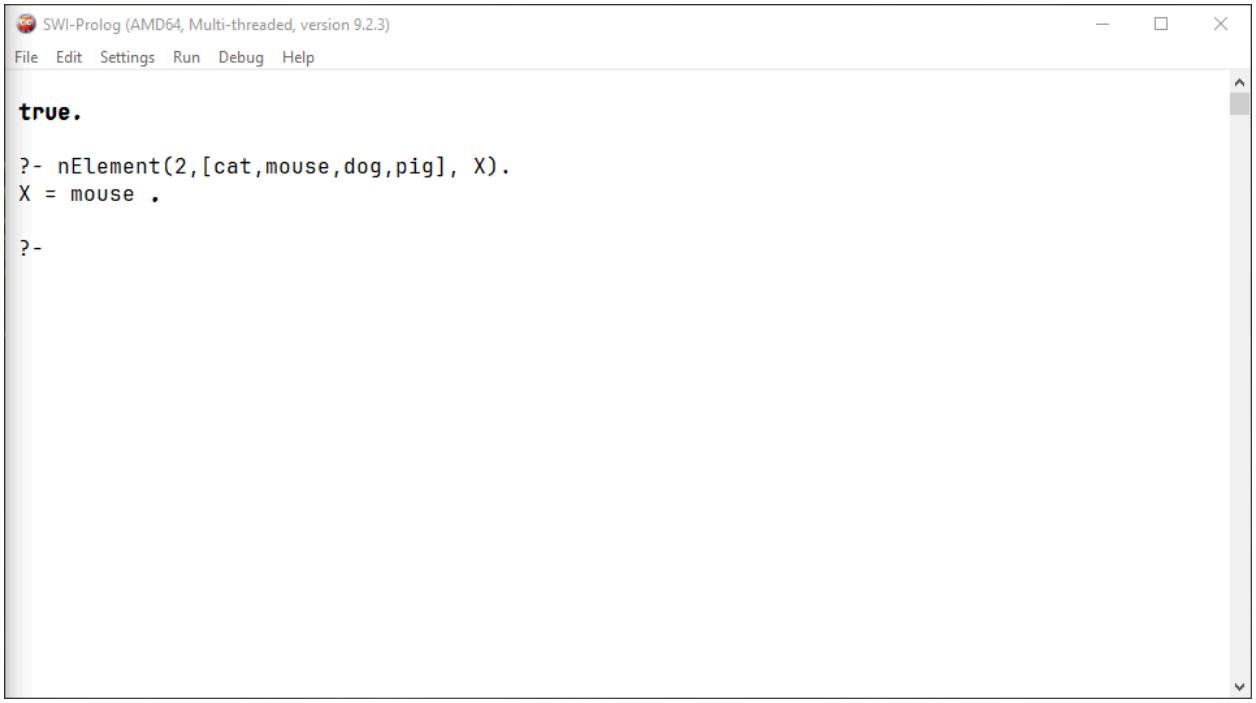
Q13. Write a prolog program to implement two predicates evenlength(list) and oddlength(list) so that they are true if their argument is a list of even or odd length respectively.



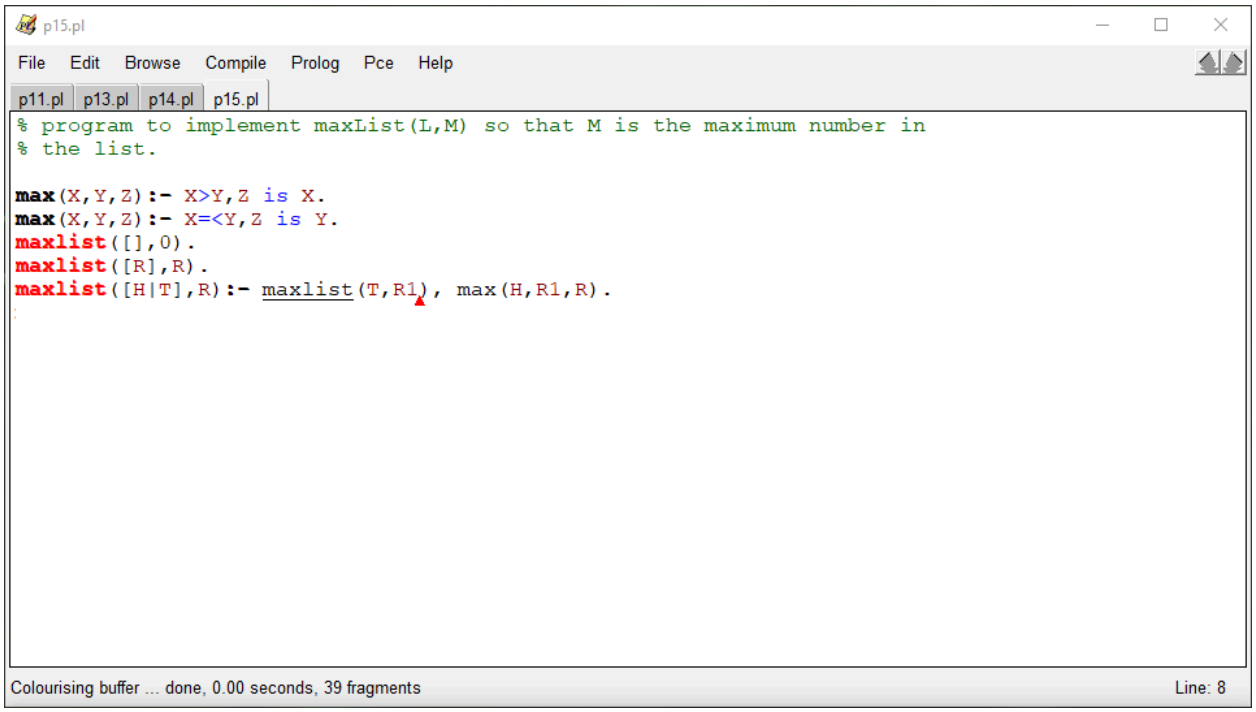


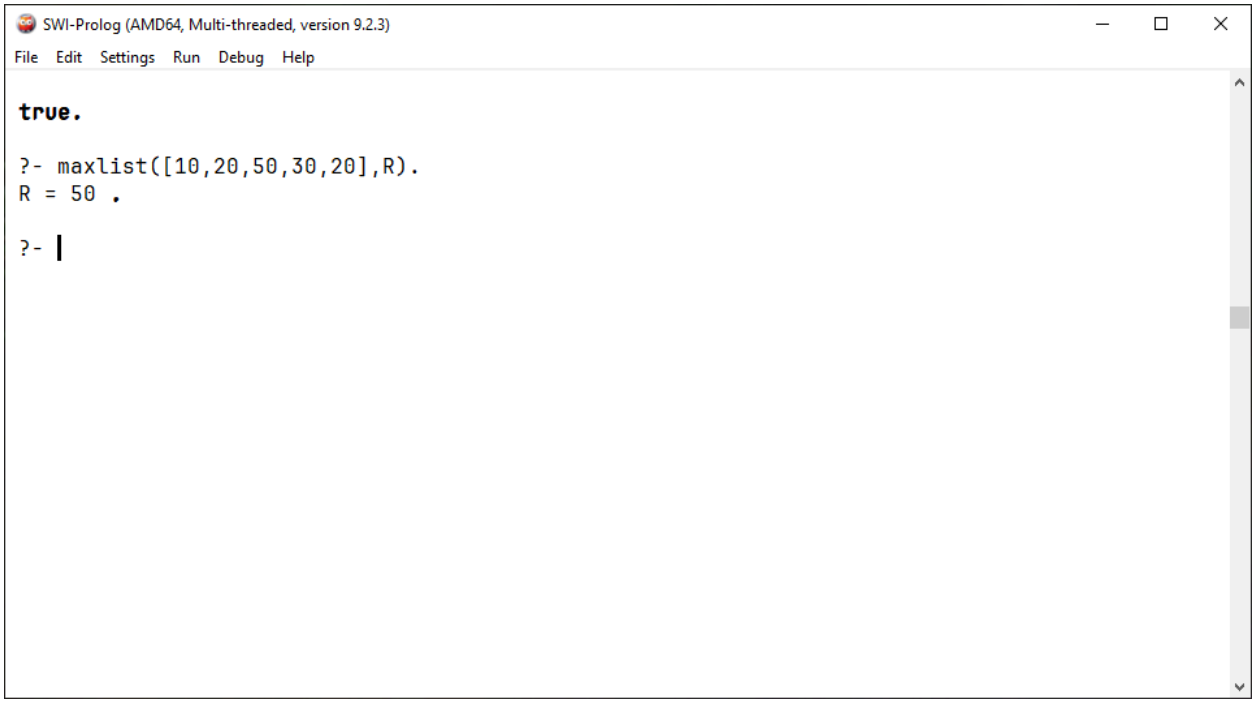
Q14. Write a prolog program to implement nth_element (N,L,X) where N is the desired position, L is a list and X represents the Nth element of L.



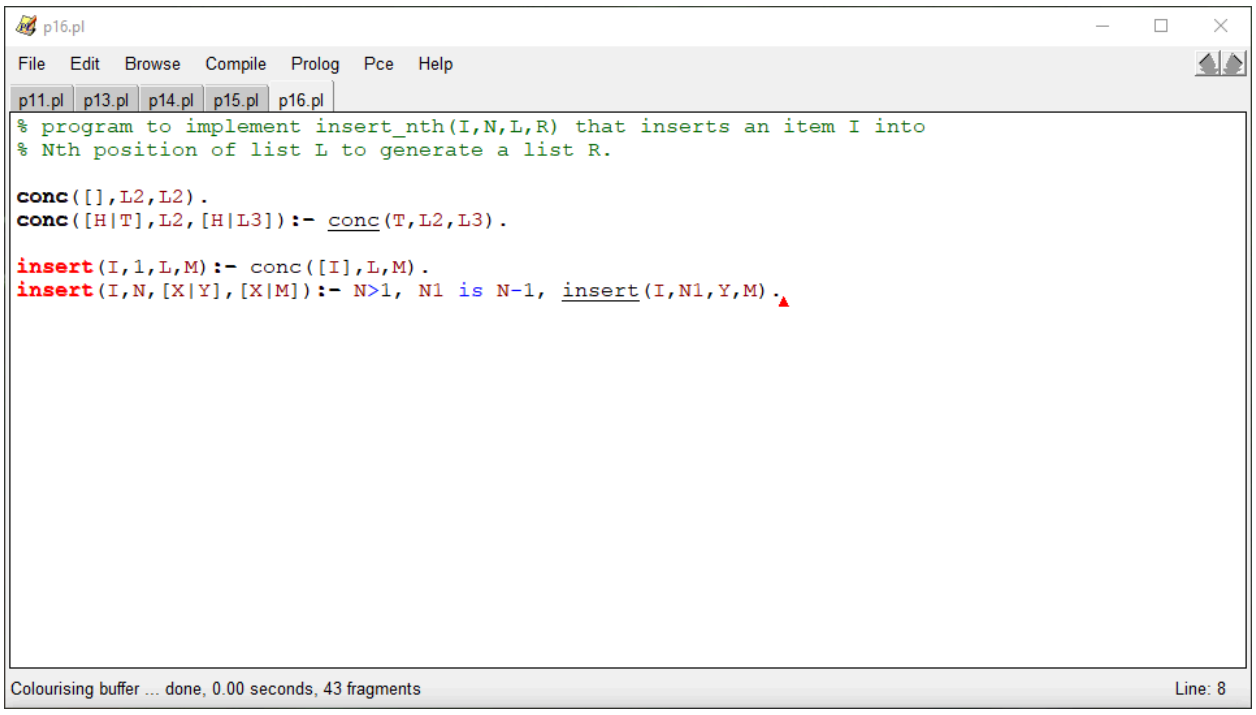


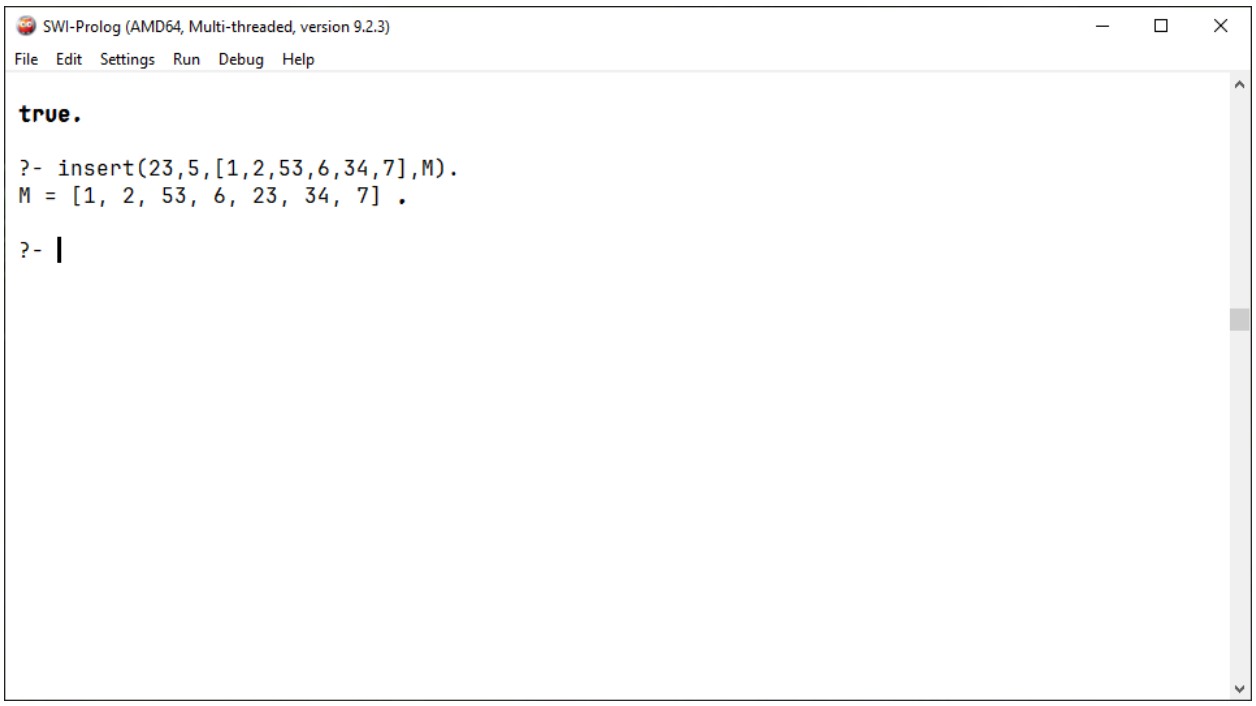
Q15. Write a Prolog program to implement maxlist(L, M) so that M is the maximum number in the list.



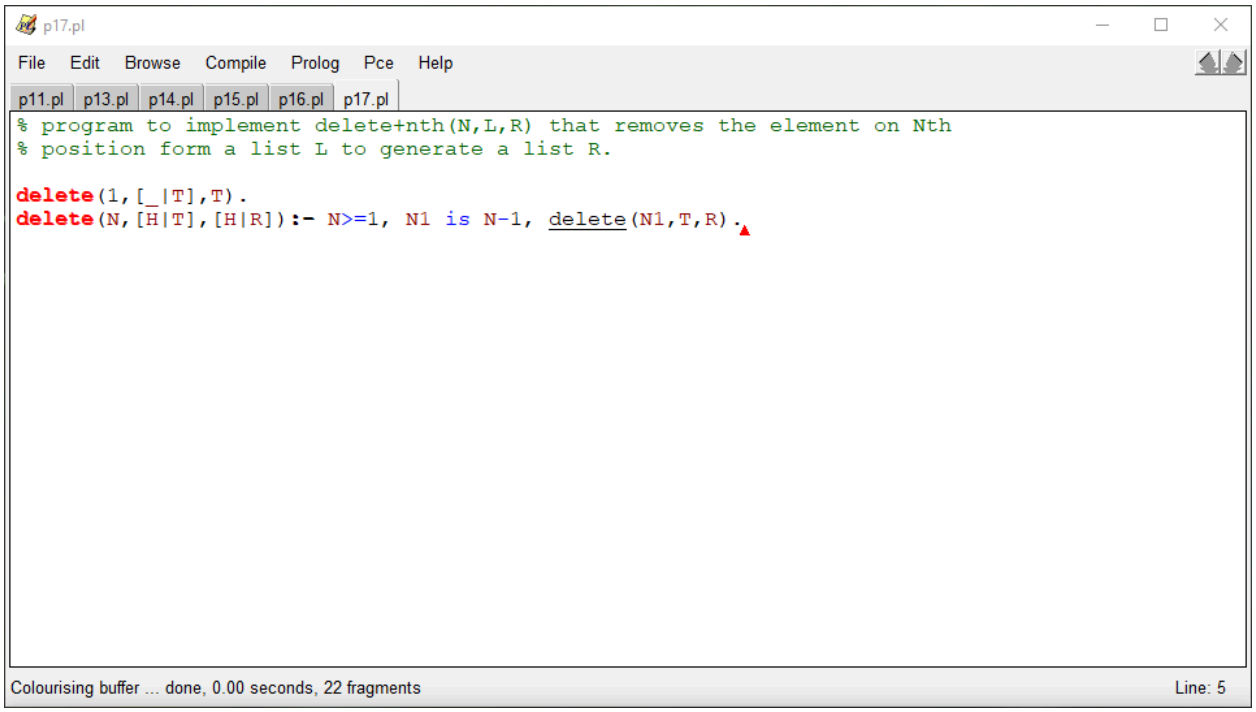


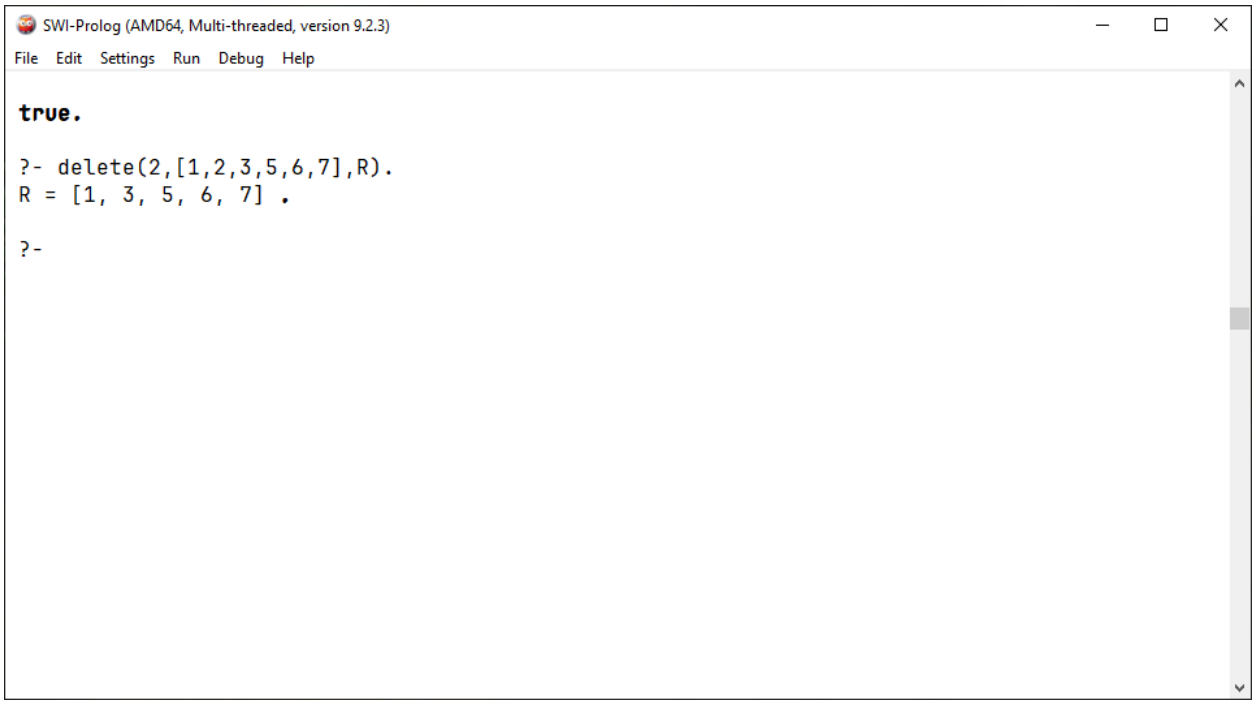
Q16. Write a prolog program to implement insert_nth (I, N, L, R) that inserts an item I into the Nth position of list L to generate a list R.





Q17. Write a Prolog program to implement delete_nth (N, L, R) that removes the element on Nth position from a list L to generate a list R.





Q18. Write a program in PROLOG to implement merge (L1, L2, L3) where L1 is first ordered list and L2 is second ordered list and L3 represents the merged list.