18BECE30558 TITHI PATEL

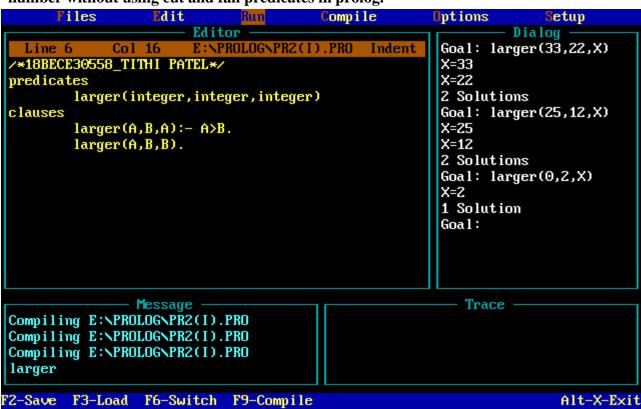
PRACTICAL-2

(A) Write an introduction of cut and fail predicates in detail:

Cut:-The primary purpose of cut is to prevent or block backtracking based on a specified condition.It is specified as an exclamation mark.

Fail:- It will immediately fail when Prolog encounters it as a goal.It can be viewed as an instruction to force backtracking.

Program (1): Implement program to find Minimum and Maximum number without using cut and fail predicates in prolog.



Program (2): Program to find minimum and maximum using cut and fail predicate.

```
Files
                                        Compile
                   Edit
                                                       Options
                                                                     Setup
                                                                 Dialog =
                        Editor -
                                        E:\PROLOG\PR
                                                        Goal: larger(13,9,X)
  rror Correction Line 7
 /*18BECE30558 TITHI PATEL*/
                                                        X=13
 predicates
                                                        1 Solution
         larger(integer, integer, integer)
                                                        Goal: larger(20,10,X)
                                                        X=20
 clauses
                                                        1 Solution
                                                        Goal: larger(33,22,X)
         larger(A,B,A):=A>B,!
         larger(A,B,B).
                                                        X=33
                                                        1 Solution
                                                        Goal:
                Message
                                                          Trace
 Load WORK.PRO
 Load E:\PROLOG\PR2(II).PRO
 Compiling E:\PROLOG\PR2(II).PRO
 larger
F2-Save F3-Load F5-Zoom F6-Next F8-Previous goal Shift-F10-Resize F10-End
       Files
                   Edit
                                        Compile
                                                       Options
                                                                     Setup
                              Run
                       Editor -
                                                                 Dialog
 Error Correction Line 6
                              Col 16
                                        E:\PROLOG\PRZ
                                                        Goal: larger(8,3,X)
 /*18BECE30558_TITHI PATEL*/
                                                        X=3
 predicates
                                                        1 Solution
         larger(integer, integer, integer)
                                                        Goal: _
 clauses
         larger(A,B,A):- A>B,fail.
         larger(A,B,B).
                 Message -
                                                          Trace
 Load E:\PROLOG\PR2(III).PRO
 Save E:\PROLOG\PR2(III).PRO
 Compiling E:\PROLOG\PR2(III).PRO
 larger
        F3-Load F5-Zoom F6-Next
                                    F8-Previous goal Shift-F10-Resize
F2-Sa∨e
```