

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.

Files	Edit	Run	Compile	Options	Setup
<b>Editor</b>				<b>Dialog</b>	
Line 6 Col 16 E:\PROLOG\PR2(1).PRO Indent				Goal: larger(33,22,X)	
/*18BECE30558_TITHI PATEL*/				X=33	
predicates				X=22	
larger(integer, integer, integer)				2 Solutions	
clauses				Goal: larger(25,12,X)	
larger(A,B,A):- A>B.				X=25	
larger(A,B,B).				X=12	
				2 Solutions	
				Goal: larger(0,2,X)	
				X=2	
				1 Solution	
				Goal:	
<b>Message</b>				<b>Trace</b>	
Compiling E:\PROLOG\PR2(1).PRO					
Compiling E:\PROLOG\PR2(1).PRO					
Compiling E:\PROLOG\PR2(1).PRO					
larger					
F2-Save F3-Load F6-Switch F9-Compile Alt-X-Exit					

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

Files	Edit	Run	Compile	Options	Setup
<div>Editor</div> <div> Error Correction Line 7 Col 16 E:\PROLOG\PR2  /*18BECE30558_TITHI PATEL*/  predicates      larger(integer, integer, integer)  clauses        larger(A,B,A):- A&gt;B,!.      larger(A,B,B). </div>			<div>Dialog</div> <div> Goal: larger(13,9,X)  X=13  1 Solution  Goal: larger(20,10,X)  X=20  1 Solution  Goal: larger(33,22,X)  X=33  1 Solution  Goal: </div>		
<div>Message</div> <div> Load WORK.PRO  Load E:\PROLOG\PR2(II).PRO  Compiling E:\PROLOG\PR2(II).PRO  larger </div>			<div>Trace</div> <div></div>		
F2-Save F3-Load F5-Zoom F6-Next F8-Previous goal Shift-F10-Resize F10-End					

Files	Edit	Run	Compile	Options	Setup
<div>Editor</div> <div> Error Correction Line 6 Col 16 E:\PROLOG\PR2  /*18BECE30558_TITHI PATEL*/  predicates      larger(integer, integer, integer)  clauses        larger(A,B,A):- A&gt;B,fail.      larger(A,B,B). </div>			<div>Dialog</div> <div> Goal: larger(8,3,X)  X=3  1 Solution  Goal: _ </div>		
<div>Message</div> <div> Load E:\PROLOG\PR2(III).PRO  Save E:\PROLOG\PR2(III).PRO  Compiling E:\PROLOG\PR2(III).PRO  larger </div>			<div>Trace</div> <div></div>		
F2-Save F3-Load F5-Zoom F6-Next F8-Previous goal Shift-F10-Resize F10-End					