KONKAN GYANPEETH COLLEGE OF ENGINEERING,
(Affiliated to University of Mumbai, Approved by A.I.C.T.E., New Delhi.)
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Department of Information Technology

Experiment No:	08
Aim:	Learn to Solve programming problems using Logic Programming through writing Prolog
Lab Objective:	Design and implement declarative programs in functional and logic programming languages.
Lab Outcomes:	Design and Develop solution based on declarative programming paradigm using functional and logic programming (LO2)
Requirements:	Any text editor to be able to edit Prolog file and swi-prolog compiler or swish online prolog code IDE.
Performance:	Students need to write prolog code for following programming tasks.

1. Find the factorial of a number.
2. Find the Nth fibonacci number.
3. Find the last element in the List.
4. Find the kth element in the List
5. Program to find sum of N natural numbers.

[Note: Students need to find solution prolog code for these problems, show execution of code, note the output and explain working of the solutions in their own words]

Conclusion:	Learn to Solve programming problems using Logic Programming through writing Prolog code.
Reference:	1. swi-prolog getting started online tutorial, https://www.swi-prolog.org/pldoc/man?section=quickstart, 01 Jan 2023.
	2. Wikipedia Article: Prolog, https://en.wikipedia.org/wiki/Prolog, 01 Jan 2023.