	Finolex Academy of Management and Technology, Ratnagiri		
	Department of Information Technology		
Subject name: Intelligent Systems Labs			Subject Code: BEITC703
Class	BE IT	Semester – VII (CBGS)	Academic year: 2019-20
Name of Student	**Kazi Jawwad A Rahim**	**QUIZ Score :**	
Roll No	**29**	Assignment/Experiment No.	06
Title: **To study basic PROLOG programming.**			

1. Course objectives applicable: COB4 Learn basics of PROLOG programming.

2. Course outcomes applicable:

CO4 –To study how to implement first order and propositional logic using PROLOG.

3. Learning Objectives:

1. To understand concept of PROLOG.
2. To install and use PROLOG.
3. To learn how to represent relations using PROLOG.

4. Practical applications of the assignment/experiment: Used in development of algorithms based on Knowledge Base.

5. Prerequisites:

1. To learn knowledge base.
2. To understand how knowledge base agent behaves and performs.
3. To use First order and propositional logic.

6. Hardware Requirements:

1. PC with minimum 2GB RAM

7. Software Requirements:

1. Windows installed
2. PROLOG installed

8. Quiz Questions (if any): (Online Exam will be taken separately batch wise, attach the certificate/ Marks obtained)

1. What do you mean by propositional logic?
2. Which are of these symbol is not used in First order logic?
3. What use of V in FOL?
4. What is PROLOG?

9. Experiment/Assignment Evaluation:

Sr. No.	**Parameters**	**Marks obtained**	**Out of**
1	Technical Understanding (Assessment may be done based on Q & A **or** any other relevant method.) Teacher should mention the other method used -		6
2	Neatness/presentation		2
3	Punctuality		2
Date of performance (DOP)		**Total marks obtained**	**10**
Date of checking (DOC)		**Signature of teacher**	

11. Learning Outcomes Achieved

1. Understood installation and use of PROLOG.
2. Understood the representations of relations in AI using PROLOG.

12. Conclusion:

1. **Applications of the studied technique in industry**
    a. Development of algorithms in machine learning.
    b. Robot planning.
2. **Engineering Relevance**
    a. Such algorithms are used to solve complex problems.
3. **Skills Developed**
    a. Study of algorithms used first order planning.

13. References :

[1] G. Görz, C.-R. Rollinger, J. Schneeberger (Hrsg.) “Handbuch der künstlichen Intelligenz” Oldenbourg Verlag, 2003, Fourth edition
[2] Turing, A. "Computing Machinery and Intelligence", Mind LIX (236): 433–460, Ocotober, 1950.
[3] Aristotle “On Interpretation”, 350 B.C.E, see: http://classics.mit.edu/Aristotle/interpretation.html
[4] Artificial Intelligence: A modern approach, Stuart Russel and Peter Norvig, Pearson.
[5] Artificial Intelligence, Elaine Rich and Kevin Knight, Tata McGraw.
[6] Principles of Artificial Intelligence, Nils J. Nilson, Narosa Publications.