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|  | | **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**
   1. Development of algorithms in machine learning.
   2. Robot planning.
2. **Engineering Relevance** 
   1. Such algorithms are used to solve complex problems.
3. **Skills Developed**
   1. 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.