**Subject:**

**Artificial**

**Intelligence**

**Subject Code:**

**CSC**

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**2**

**61**



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| **Lab. No.** | **Title** | **Practical Date** | **Submission Date** |
| **1.** | **Write a code to simulate the Vacuum Cleaner Agent inhibiting the properties of simple reflex agents.** |  |  |
| **2.** | **Write a program to implement the Breadth First Search uninformed search technique.** |  |  |
| **3.** | **Write a program to implement the Depth First Search uninformed search technique.** |  |  |
| **4.** | **Illustrate the Uniform Cost Search using python program.** |  |  |
| **5.** | **Implement Best First Search algorithm using python program.** |  |  |
| **6.** | **Implement A\* Search algorithm using python program.** |  |  |
| **7.** | **Write a program to find the maximum score that the maximizing player can get using Minimax Algorithm..** |  |  |
| **8.** | **Simple exercise on logic programming using Prolog.** |  |  |
| **9.** | **Write a clause for predicate logic** |  |  |
| **10.** | **Write a program in prolog to implement simple arithmetic** |  |  |

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| **Lab. No.** | **Title** | **Practical Date** | **Submission date** |
| **11** | **Write a program in prolog to compute factorials of any number.** |  |  |
| **12** | **Write a prolog program to check conflict in map coloring problems.** |  |  |
| **13** | **WAP in prolog to print all possible paths between any two nodes** |  |  |
| **14** | **Write a program in prolog to solve the tower of Hanoi problem** |  |  |
| **15.** | **Write predicates which converts centigrade temperatures to Fahrenheit, the other checks if a temperature is below freezing.** |  |  |
| **16.** | **Create a knowledge Base for family tree.** |  |  |
| **17.** | **Write a program to illustrate the implementation of Naive Bayes algorithm in python.** |  |  |
| **18.** | **Write a machine learning code to implement simple linear regression in python using a toy dataset.** |  |  |
| **19.** | **WAP to implement Gradient Descent.** |  |  |
| **20.** | **Write a program to implement Logistic Regression for binary classification.** |  |  |