**Text, logo, company name

Description automatically generated**

**LAB RECORD**

**BACHELOR OF TECHNOLOGY**

**B.Tech. CS & Engg. Semester (7)**

**(Academic Session – 2021 - 22)**

**Course Title : Artificial Intelligence**

**Course Code : CSE401**

**Enrolment No. : A7605218102**

**Name of Student : Rahul Srivastava**

**Date of Submission : 24/12/2021**

**Signature of Student :**

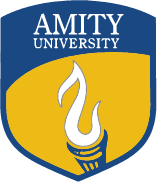
**Grade/Marks Obtained :**

**Faculty Name & Signature : Dr. Pooja Khanna**

**Department of Computer Science & Engineering**

**Amity School of Engineering & Technology**

**Amity University, Lucknow Campus**



Department of Computer Science & Engineering

Amity School of Engineering & Technology

Amity University, Lucknow Campus

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| **Lab Session** | **Date** | **Signature of Faculty** | **Remarks** |
| 1. Write a program to show addition, subtraction & multiplication of a matrix. | 2/8/2021 |  |  |
| 2. Write a program to implement BFS for water jug problem using Python. | 10/8/2021 |  |  |
| 3. Write a program to implement Tic-Tac-Toe game problem using Python. | 17/8/2021 |  |  |
| 4. Write a program to check whether the semantic of propositional logic are-satisfiable, contradictory, or valid using Python. | 24/8/2021 |  |  |
| 5. Write a Python NLTK program to split the text sentence/paragraph into a list of words. | 30/8/2021 |  |  |
| 6.Write a Python NLTK program to create a list of words from a given string. | 06/9/2021 |  |  |
| 7.Write a Python NLTK program to split all punctuation into separate tokens. | 13/9/2021 |  |  |
| 8.Write a Python NLTK program to Categorizing and Tagging Sentences using NLTK in Python. | 20/9/2021 |  |  |
| 9.Write Python program to count stop words, punctuations noun and adjectives used in a text file. | 27/9/2021 |  |  |

**PROGRAM-1**

**AIM: -**Write a program to show addition, subtraction & multiplication of a matrix Python.

**PROGRAM and OUTPUT: -**

Text

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated with medium confidence

A picture containing graphical user interface

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

**PROGRAM-2**

**AIM: -** Write a program to implement BFS for water jug problem using Python.

**PROGRAM and OUTPUT: -**

Text

Description automatically generated

Text

Description automatically generated with medium confidence

Text

Description automatically generated

Text

Description automatically generated with low confidence

Text

Description automatically generated

**PROGRAM-3**

**AIM: -**  Write a program to implement Tic-Tac-Toe game problem using Python.

**PROGRAM and OUTPUT: -**

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

Graphical user interface, text, application, chat or text message

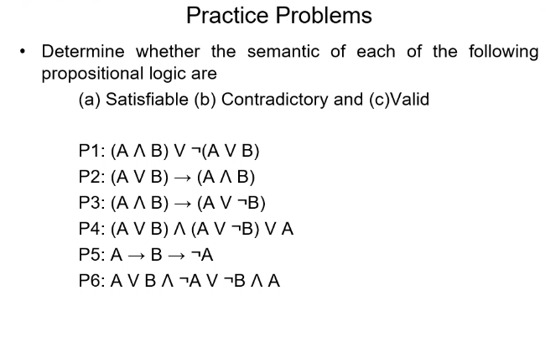
Description automatically generated

Table

Description automatically generated

**PROGRAM-4**

**AIM: -**Write a program to check whether the semantic of propositional logic are-satisfiable, contradictory or valid using Python.



**PROGRAM and OUTPUT: -**

A picture containing timeline

Description automatically generated

A picture containing chart

Description automatically generated

A picture containing timeline

Description automatically generated

A picture containing chart

Description automatically generated

Text

Description automatically generated with medium confidence

A picture containing table

Description automatically generated

A picture containing text

Description automatically generated

A picture containing rectangle

Description automatically generated

A picture containing timeline

Description automatically generated

A picture containing chart

Description automatically generated

Graphical user interface, text, application

Description automatically generated

A picture containing shape

Description automatically generated

**PROGRAM-5**

**AIM: -** Write a Python NLTK program to split the text sentence/paragraph into a list of words.

**PROGRAM and OUTPUT: -**

Graphical user interface, text, application, email

Description automatically generated

**PROGRAM-6**

**AIM: -** Write a Python NLTK program to create a list of words from a given string.

**PROGRAM and OUTPUT: -**

Graphical user interface, text, application

Description automatically generated

**PROGRAM-7**

**AIM: -** Write a Python NLTK program to split all punctuation into separate tokens.

**PROGRAM and OUTPUT: -**

Graphical user interface, text, application

Description automatically generated

**PROGRAM-7**

**AIM: -** Write a Python NLTK program to Categorizing and Tagging Sentences using NLTK in Python.

**PROGRAM and OUTPUT: -**

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated

**PROGRAM-8**

**AIM: -** Write Python program to count stop words, punctuations noun and adjectives used in a text file.

**PROGRAM and OUTPUT:-**

Graphical user interface, text, application, email

Description automatically generated

A picture containing graphical user interface

Description automatically generated

Graphical user interface, text, application

Description automatically generated

A picture containing background pattern

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface

Description automatically generated with medium confidence