

# ARTIFICIAL INTELLIGENCE LABORATORY-II Lab Manual



Academic Year: 2022 - 2023 Course Code: 20AM3603

Semester : VI

Department : CSE (AIML)

NAME:
JSN:
Semester:
Section:

### Dayananda Sagar University,

Hosur Rd, Kudlu Gate, Srinivasa Nagar, Hal Layout, Singasandra, Bengaluru, Karnataka 560068





# **Laboratory Certificate**

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B.Tec	h in t	he <b>A</b>	RTIFIC	CIAL INTE	LLIGEN	CE -	II(20A	M360	<b>)3)</b> La	aboratory	of this
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Date	:							S	ignatı	are of Fa	culty
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## **Instructions for Laboratory Exercises**

- 1. The programs with comments are listed for your reference. Write the programs in observation book.
- 2. Create your own subdirectory in the computer. Edit (type) the programs with program number and place them in your subdirectory.
- 3. Execute the programs as per the steps discussed earlier and note the results in your observation book
- 4. Initially you will start with PYTHON & ANACONDS tools, execute the program.
- 5. You can also use Google clab, jyupter notebook for execution of the program.
- 6. Please include program output screen for every program.



#### **COURSE OBJECTIVES:**

- To provide skills for designing and analyzing AI-based algorithms.
- To familiarize students with skills to work in various sub-areas of AI, such as expert systems, natural language processing, and machine learning.

#### **COURSE OUTCOMES:**

CO No.	Outcomes	Bloom's
CO No.		TaxonomyLevel
1	Demonstrate awareness and a fundamental understanding of	L6
	applying AI techniques in intelligent agents, expert systems,	
	artificial neural networks and other machine learning models.	
2	Select and apply appropriate algorithms and AI techniques to	L6
	solve complex problems.	

Lis	List of Laboratory/Practical Experiments activities to be conducted:					
#	Name of the Experiment	Date of Conduction	Marks (CIE)	Signature		
1	Design & analyze the application of Artificial Intelligence for Graph Theory concept.					
2	For a given set of training data examples stored in a .CSV file, implement and demonstrate the Candidate-Elimination algorithm to output a description of the set of all hypotheses consistent.					
3	Write a python program to remove punctuations from the given string?					
4	Implement naïve bayes theorem to classify the English text					
5	Implement the finite words classification system using backpropagation algorithm					
6	To implement the model to correctly identify the sentiments of the users by reviews which is an English paragraph and the result will be in positive or					



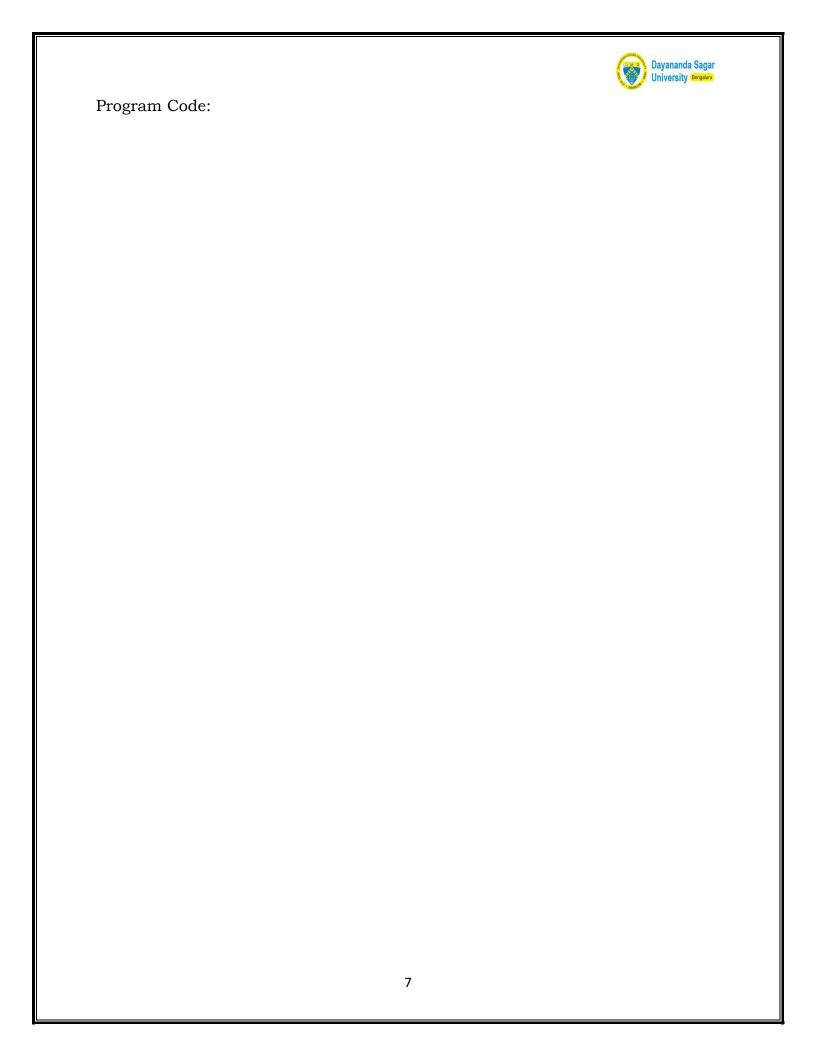
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	negative only. "NLP - Sentiment		
	Analysis - Restaurant Reviews".		
7	Deep Learning:		
8	Handwritten recognition using MNSIT		
0	Trandwritten recognition doing witton		
	IOT LAT.		
9	IOT + AI:		
10	MINI Dusingt (Curula Theorem / Dusing		
10	MINI Project (Graph Theory / Prolog		
	/LISP / CNN /NLP)		
	Each batch (Consisting of not more		
	than 3 members need to submit the		
	mini project report & demonstration on		
	the said topics)		
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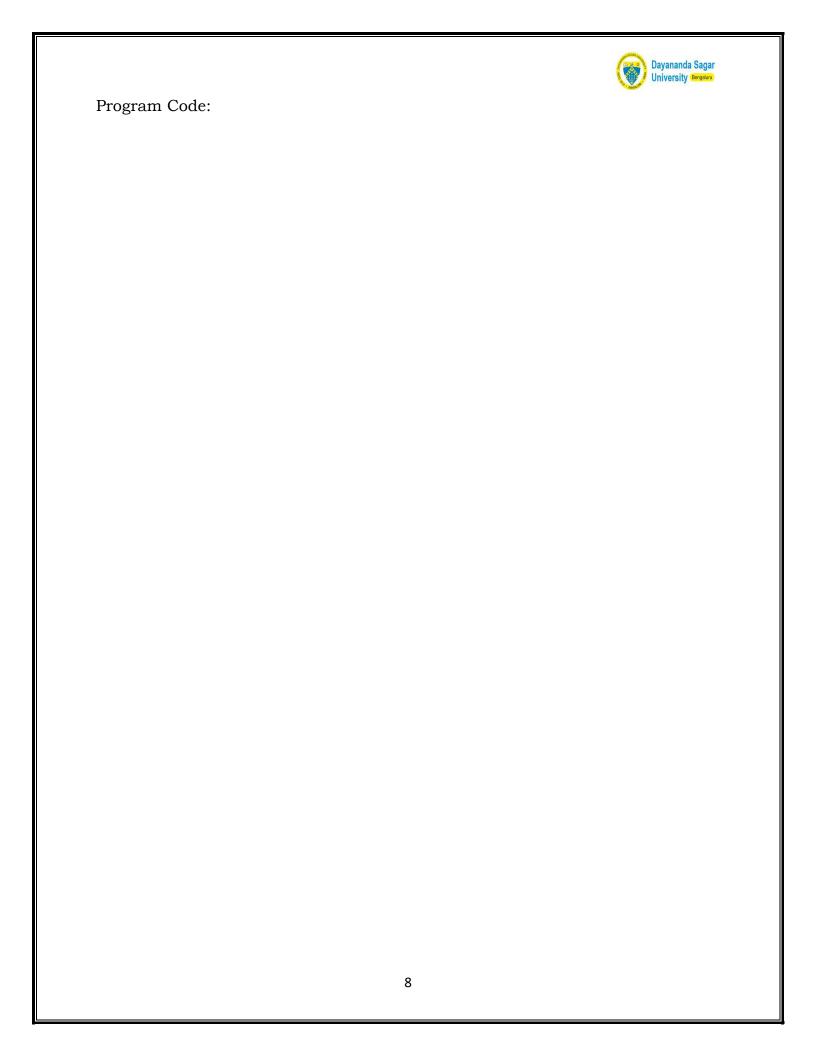
Final Submission Date: Signature of Faculty

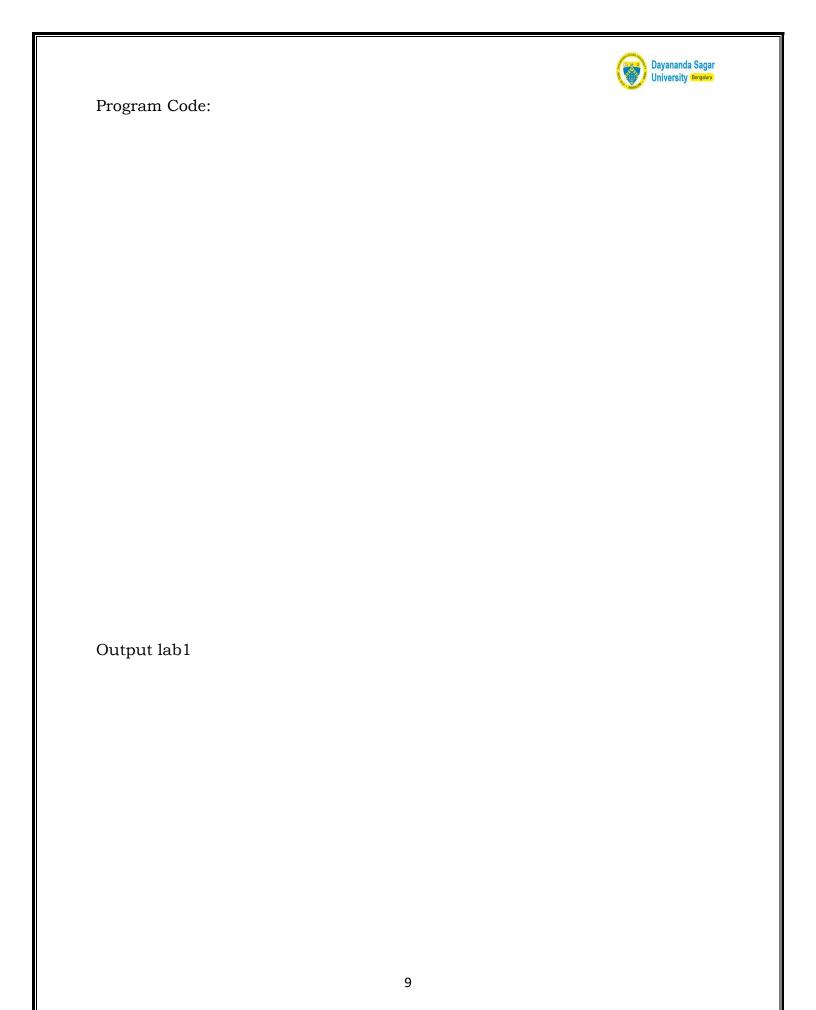


#### Lab1:

Objective: Design & analyze the application of Artificial Intelligence for Graph Theory concept.









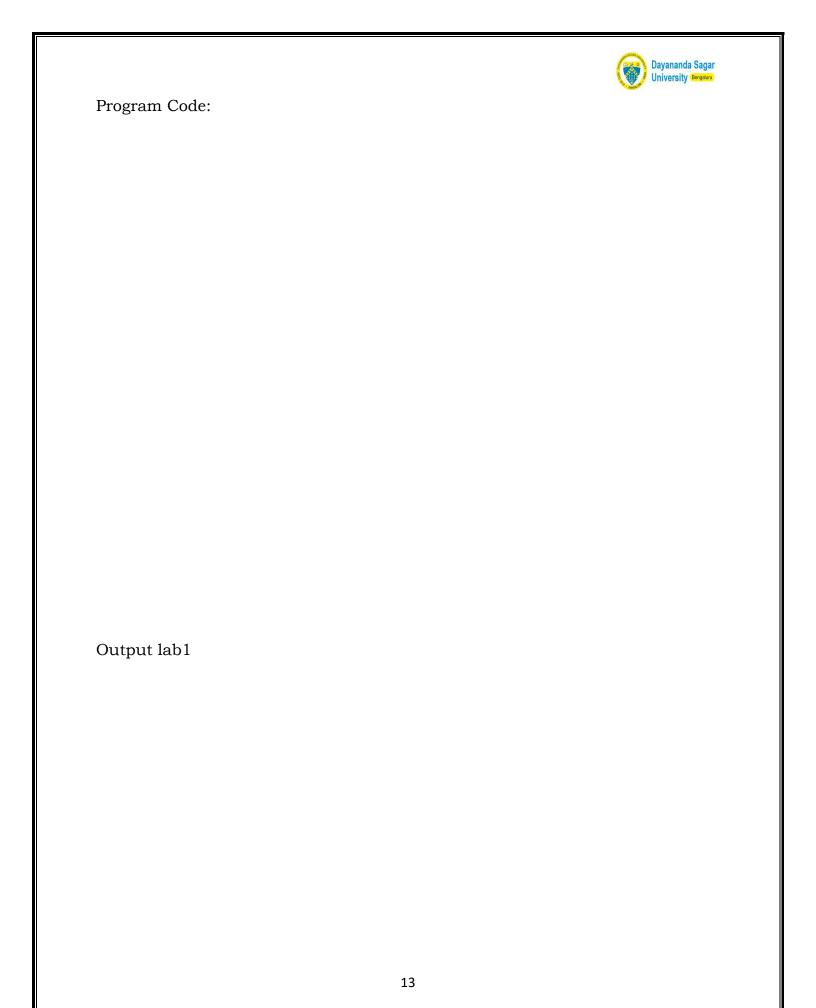
#### Lab2:

Objective: For a given set of training data examples stored in a .CSV file, implement and demonstrate the Candidate-Elimination algorithm to output a description of the set of all hypotheses consistent.



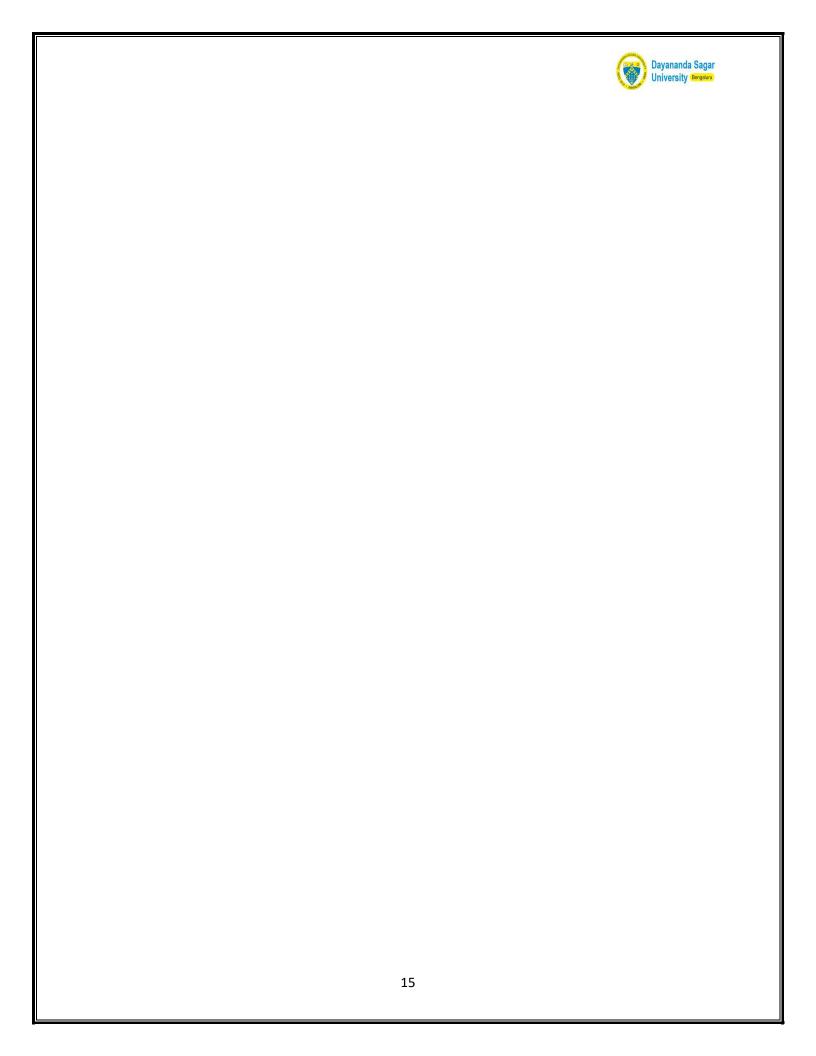
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Program Code:	
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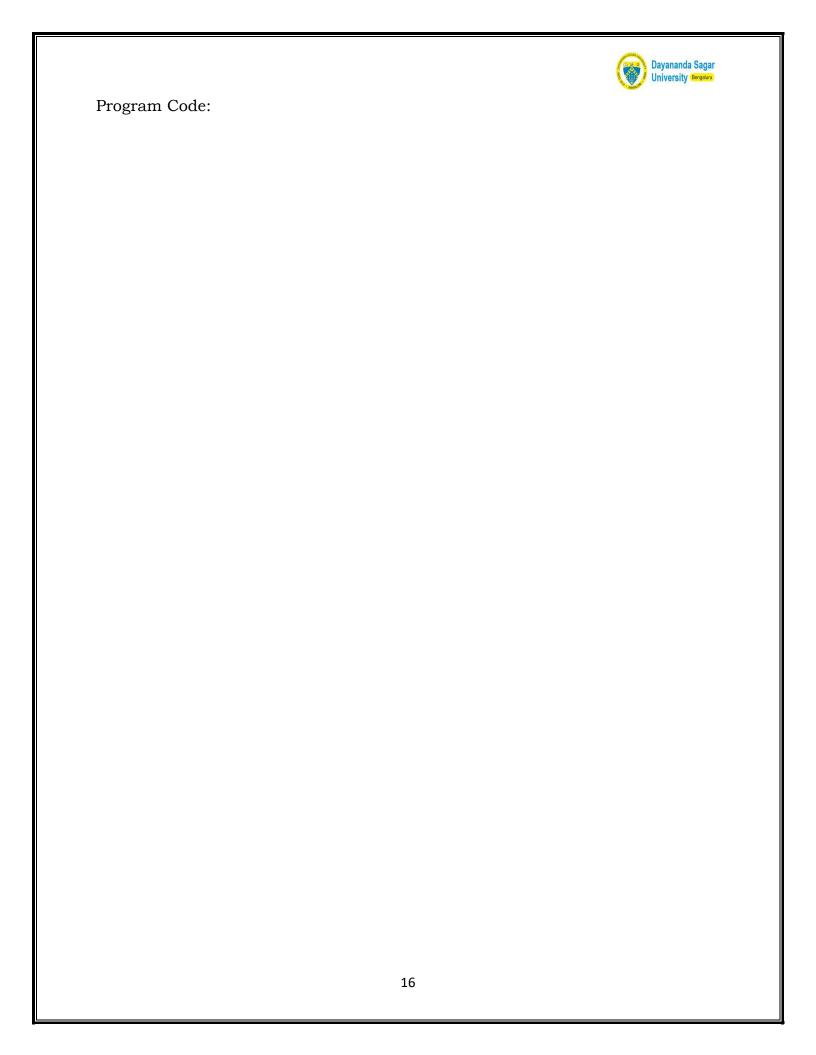
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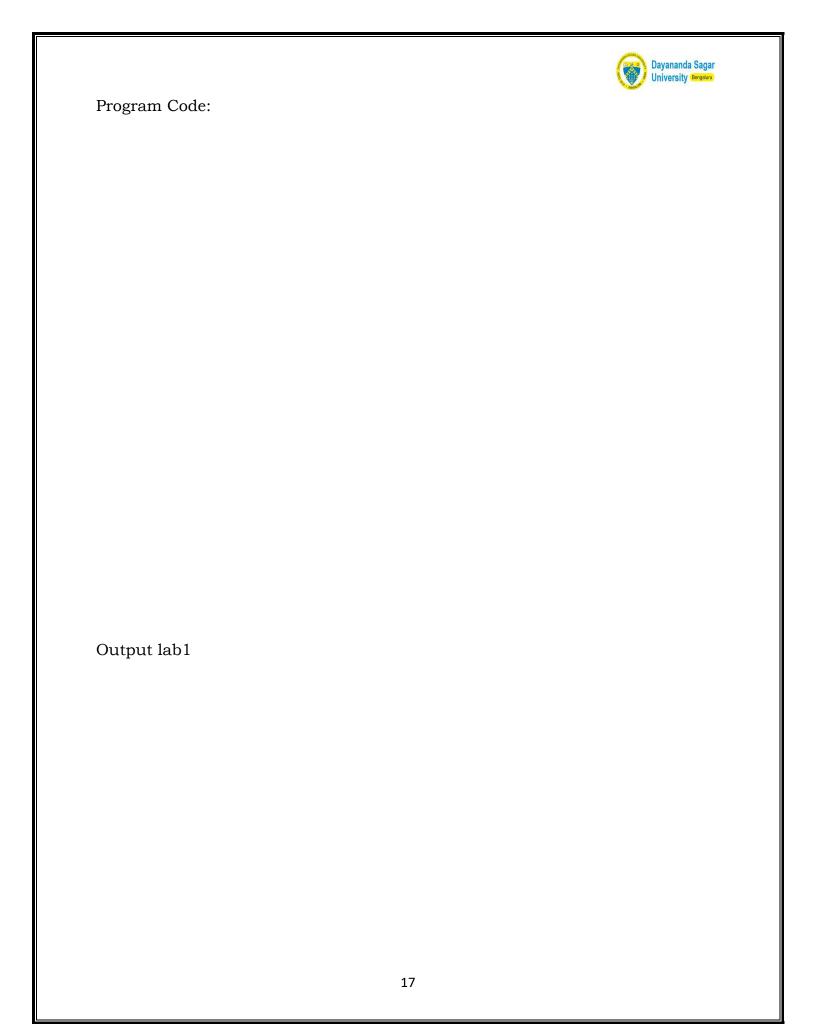




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Lab3:	
Objective: Write a python program to remove puncti	ations from the given string?
Explanation:	
Program Code:	





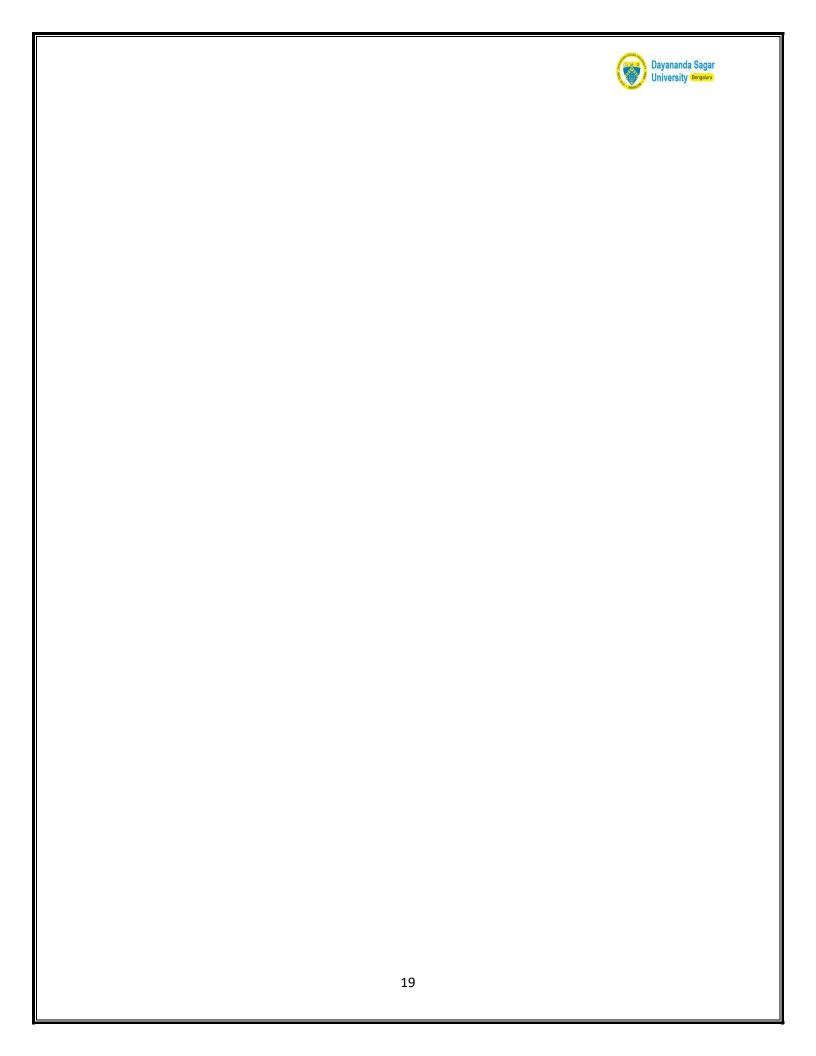




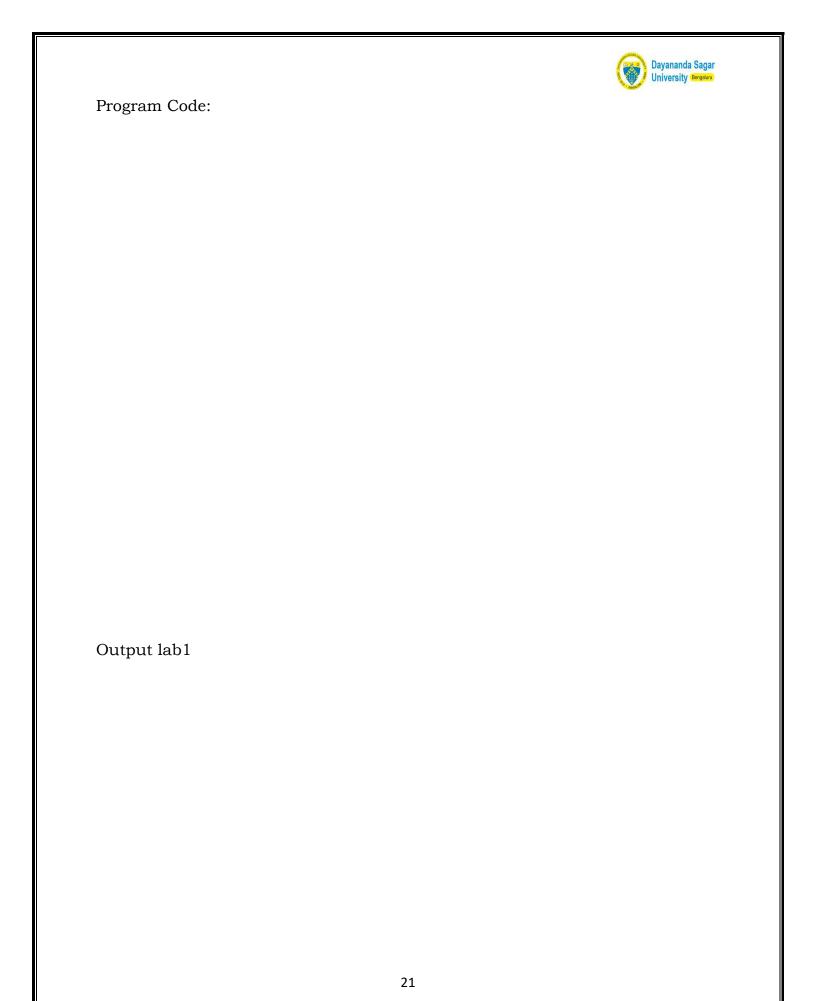
Τ	<u>a</u>	h	4	•

Objective: Implement naïve bayes theorem to classify the English text Explanation:

Program Code:



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Program Code:		
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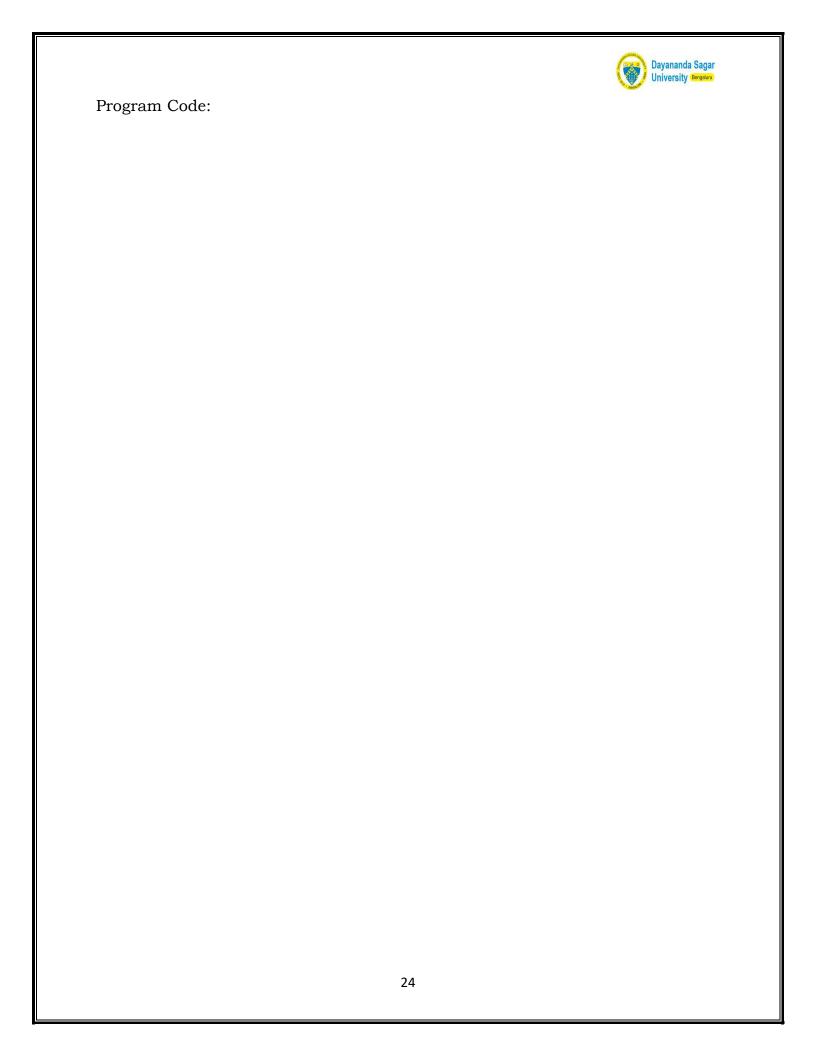


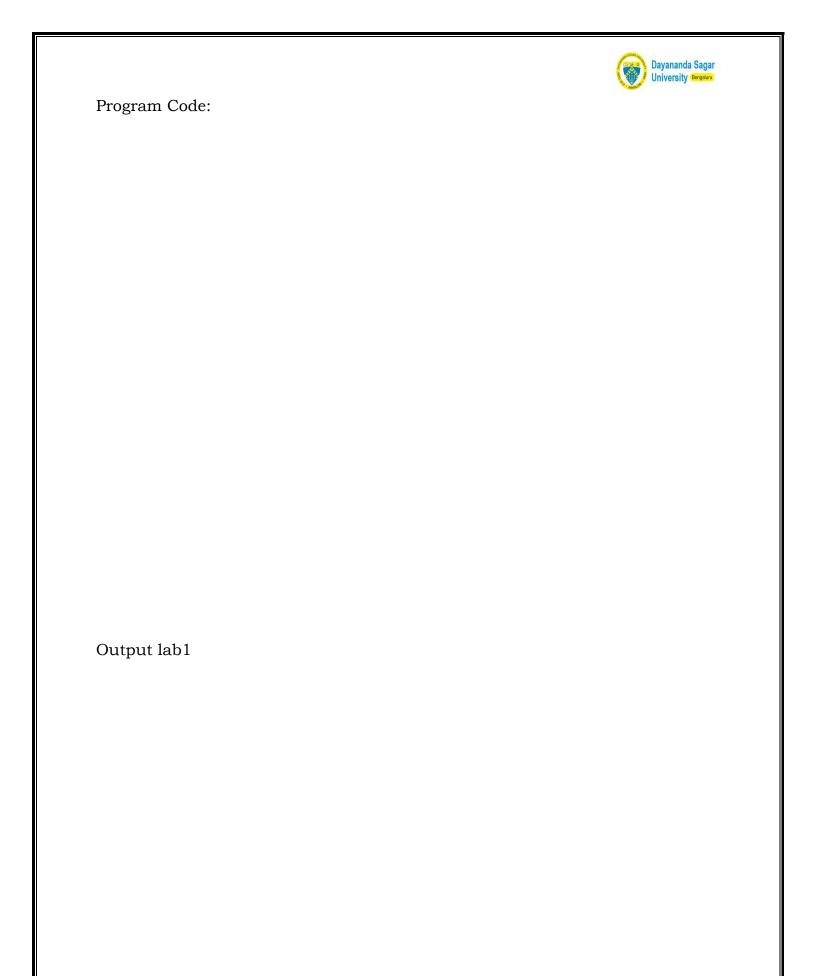


#### Lab5:

Objective: Implement the finite words classification system using backpropagation algorithm

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Program Code:	
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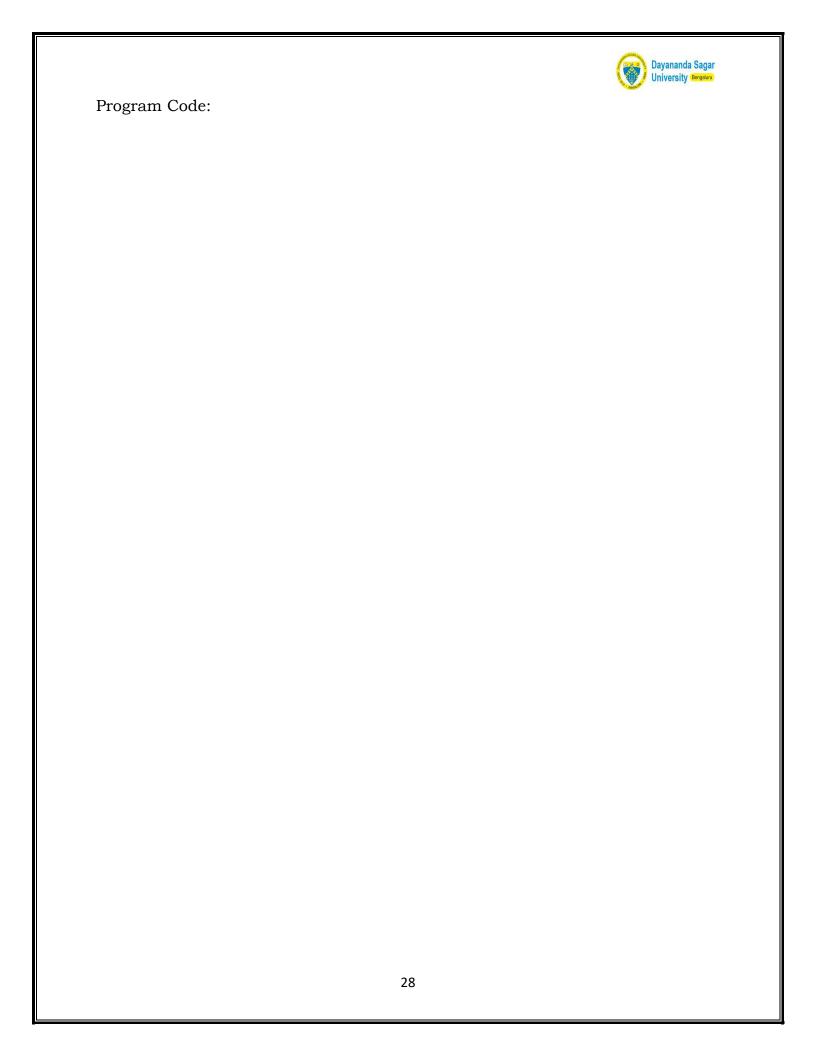


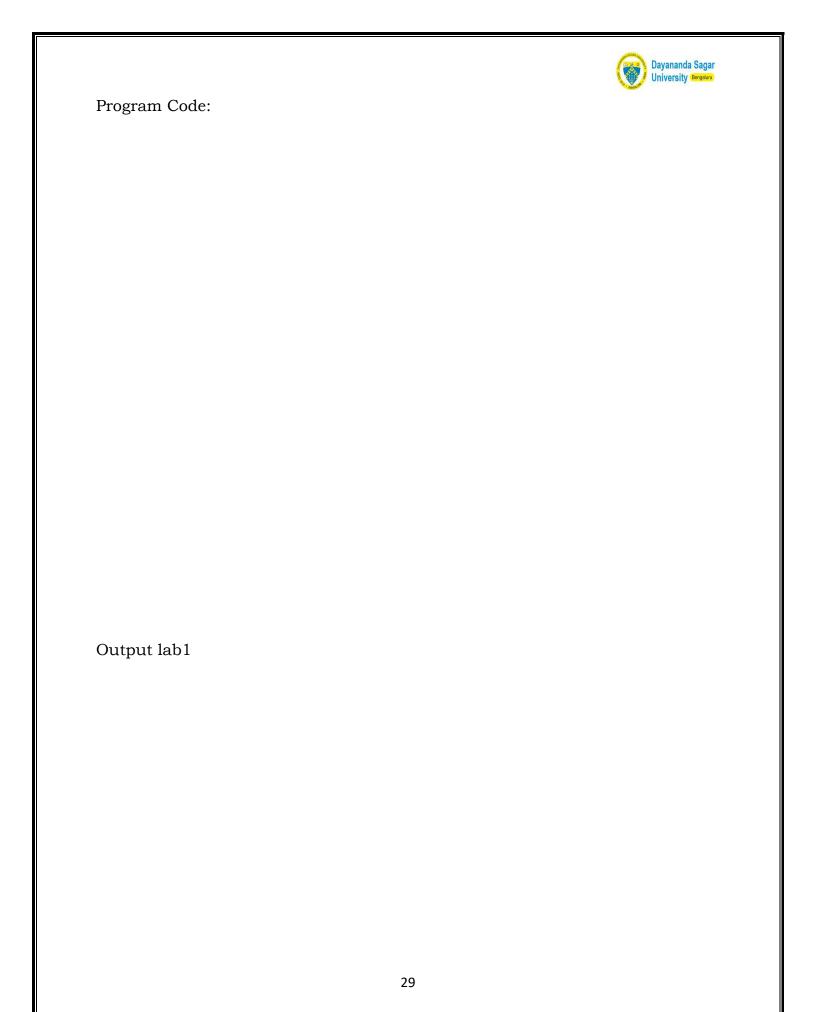
#### Lab6:

Objective: To implement the model to correctly identify the sentiments of the users by reviews which is an English paragraph and the result will be in positive or negative only. "NLP - Sentiment Analysis - Restaurant Reviews".

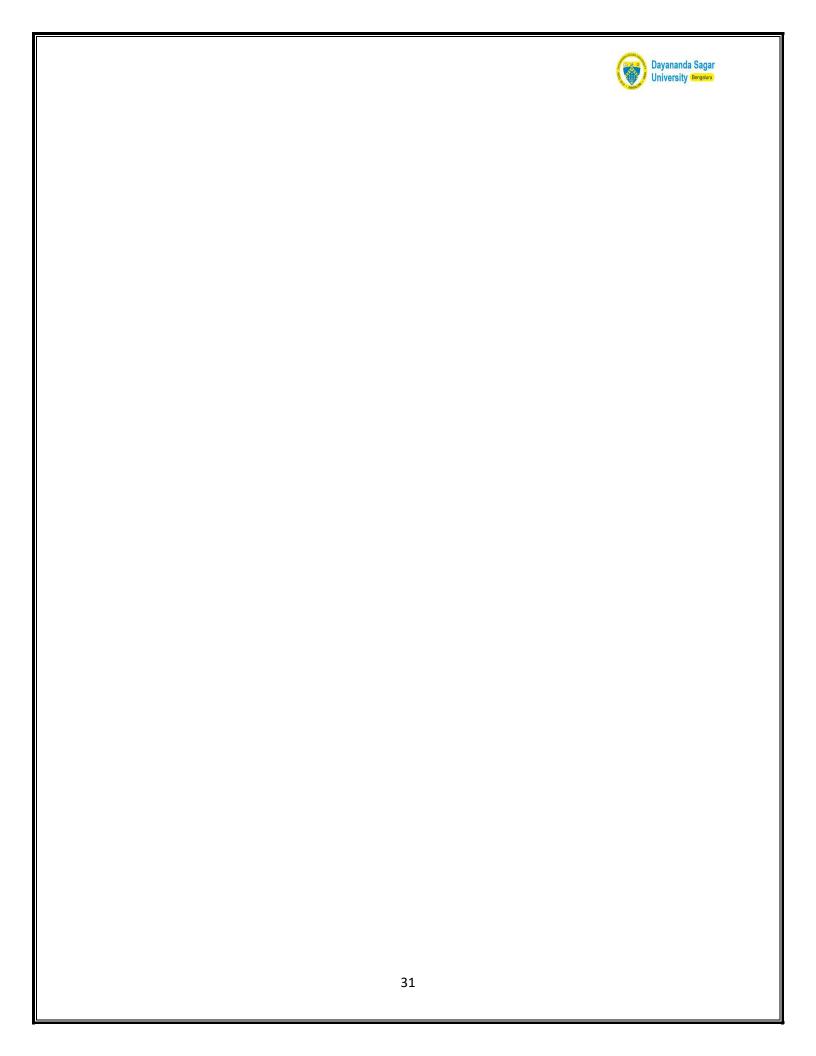


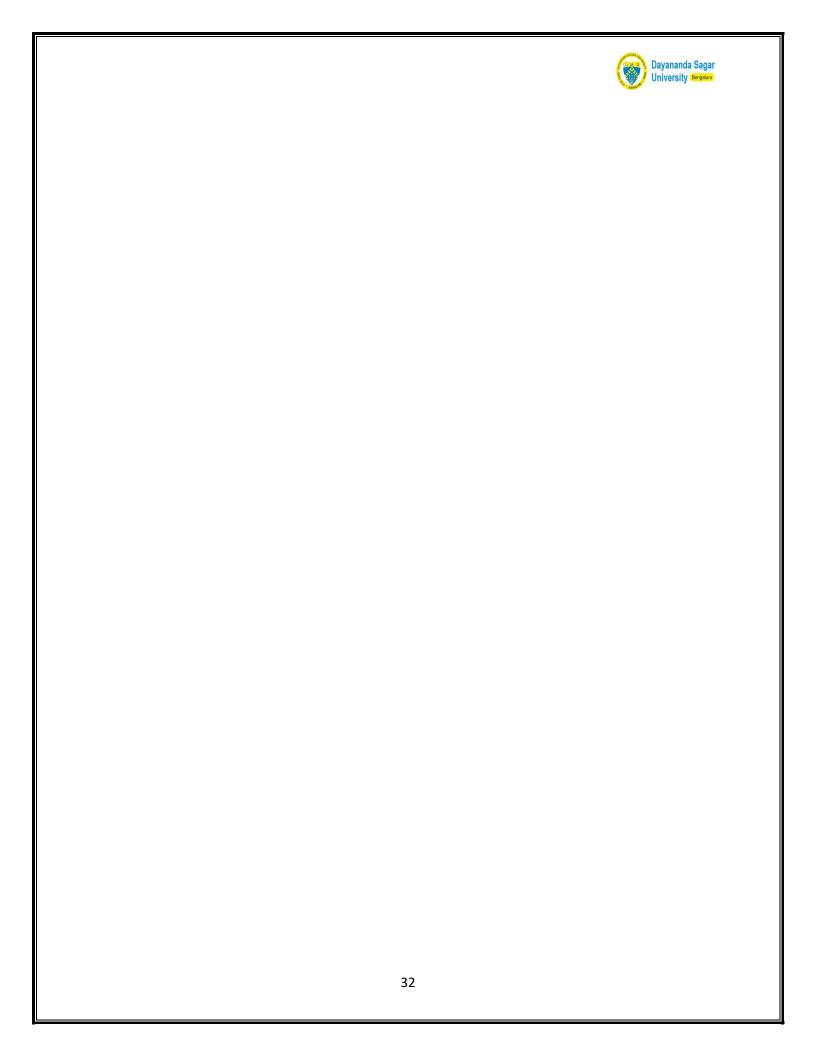
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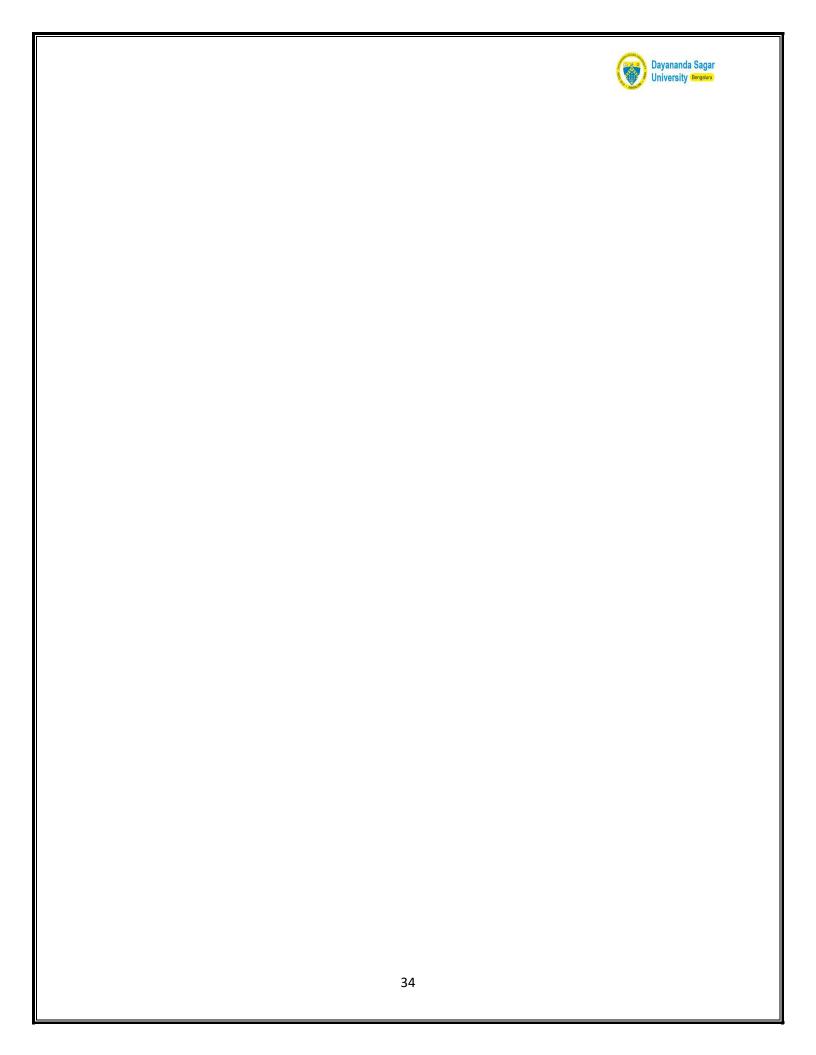


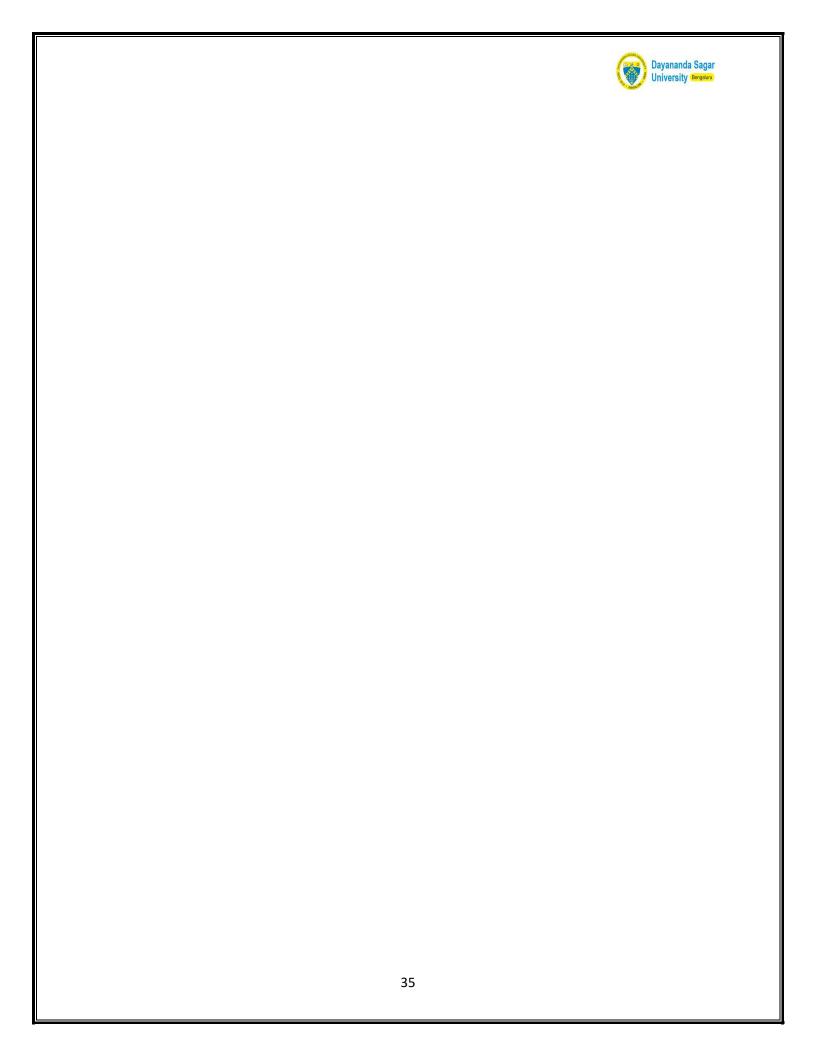
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Lab7		
Objective:		
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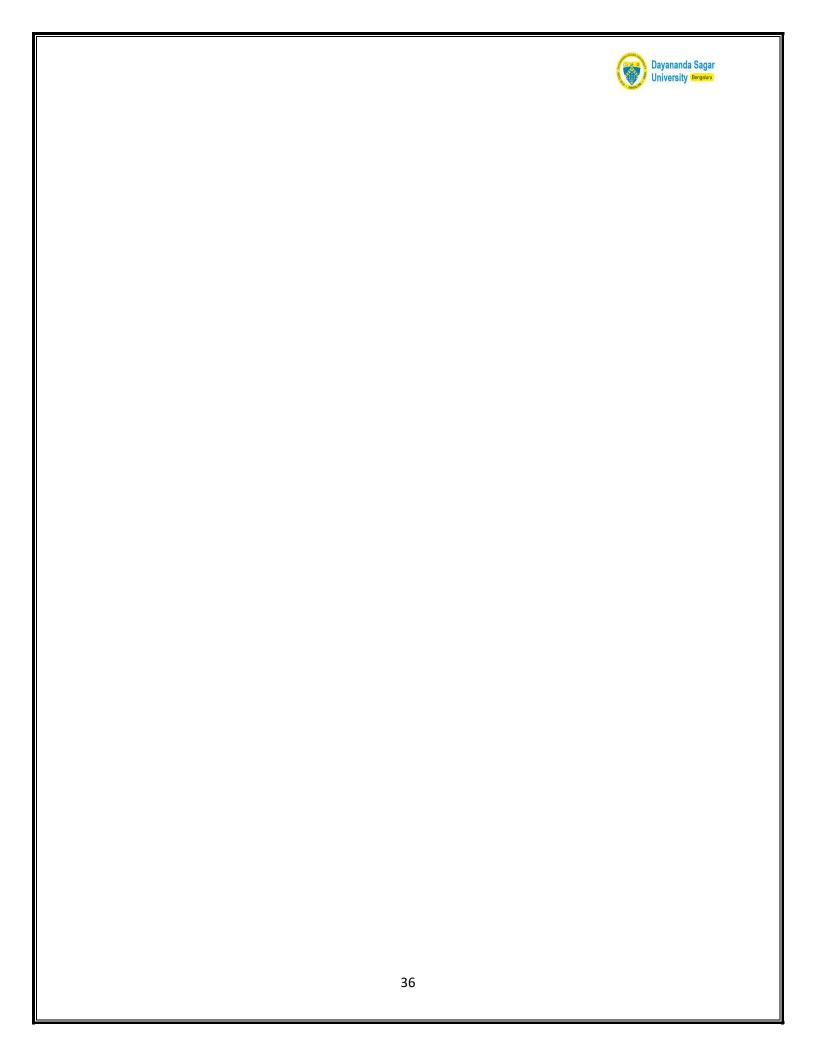




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Lab8			
Objecti	ve:		









Lab9
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Objective:

