

Course: **Artificial Intelligence Lab**

**(Fall 2022)**

Resource Person: **Hafiz Ahmad Farooq**

**ASSIGNMENT – 01**

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**Total Points: 100**

**Submission Due: Wednesday, February 08, 2023 – 11:59PM**

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***Instructions: Please Read Carefully!***

- This is an individual assignment. Everyone is expected to complete the given assignment on their own, without seeking any help from any website or any other individual. There will be strict penalties for any work found copied from any source and the university policy on plagiarism will be strictly enforced.
  - You are expected to submit this assignment as:
    - a. Create a “**single notebook file**” for the assignment solution.
    - b. Make sure to run the test program using all algorithms and test data.
  - Assignment is to be submitted in reply to the assignment posted on the **Google Classroom**.
  - Late submissions will have a **10% negative** penalty for each day.
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## INSTRUCTIONS

In this assignment you will answer all the questions mentioned in “**assignment.ipynb**”. Please read all sections of the instructions carefully:

## CHOICE OF PROGRAMMING LANGUAGE

You can use only **Python** programming language to write the solution of this programming assignment. No other programming language should be used.

## ASSIGNMENT CONTENTS

- I. Problem Statement
- II. What You Need to Submit
- III. Important Information
- IV. Before You Finish

### I. Problem Statement

The situation is, you’re trying to prepare yourself for midterm. That’s why you’re going to practice your skills and the match your answer to given output.

### II. What You Need to Submit

Your job in this assignment is to write:

- `YOURNAME_assignment_YOUR_ID.ipynb`  
□ i.e, `TalhaTalha_assignment_19024680.ipynb`

### III. Important Information

Please read the following information carefully. you are being provided with many hints and explicit instructions as well as Lab Manuals on these topics. Before you post a clarifying question on Google Classroom, make sure that your question is not already answered in the Lab Manual.

#### IV. Before You Finish

- **Make sure** your code generates the correct solution.
- **Make sure** your program always terminates without error, and in a reasonable amount of time. **You will receive zero points if your program fails to terminate. Running times of more than a minute or two may indicate a problem with your implementation.**
- **Make sure** your program output follows the specified format exactly. You will not receive proper credit if your format differs from the expected results.

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**END OF ASSIGNMENT**

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