Dr. A. Q. Khan Institute of Computer Sciences & Information Technology, (KICSIT)
Department of Computer Engineering

Artificial Intelligence Lab (01)
Assignment/Quiz/Lab Task/Lab Report

Assigned Date:

1. **Lab Task 01**: **Practice** the all examples mentioned in lab 01 (https://github.com/ZiaUrRehman-bit/Python-Course-For-Biginners/blob/main/01%20Basics%20of%20Python.ipynb).

[CLO-01, PLO-02, P-3(Guided Response), Rubric (Coding)]

Marks	1	2	3	4
Coding	The code is not as per guidelines and requirements are not met	Some section of code is correct	Most section of code is correct and understands it well	The code is properly written, and have good understanding about it

2. **Lab Task 02**: **Try** to implement following tasks using python programming language.

   a. Create three variables representing your name, age, and favorite color. Print a message using these variables.
   b. Ask the user for their name and then print a personalized greeting.
   c. Create a string containing your favorite quote. Print the quote and its length.
   d. Create a list of your favorite fruits. Print the list and the total number of fruits.
   e. Create a dictionary representing a person's information (name, age, and city). Print the dictionary.
   f. Ask the user for their age and check if they are eligible to vote (age 18 or older). Print the eligibility status.
   g. Ask the user to guess a number between 1 and 10. Keep prompting them until they guess correctly.
   h. Create a function that calculates the area of a rectangle given its length and width. Ask the user for the values and print the area.
   i. Create a command-line To-Do List application that allows users to add tasks, view tasks, mark tasks as completed, and delete tasks.
      a. **Requirements:**
         i. Allow users to add tasks with descriptions.
         ii. Display a list of tasks with their statuses (completed or not completed).
         iii. Allow users to mark tasks as completed.
         iv. Allow users to delete tasks.
         v. Provide a menu for users to choose actions (add, view, mark, delete, exit).

[CLO-01, PLO-02, P-3(Guided Response), Rubric (Coding)]

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Lab Instructor: Engr. Zia Ur Rehman

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Artificial Intelligence Lab
All Rubrics of Microprocessor & Interfacing Lab
CLO 1

Marks	1	2	3	4
Coding	The code is not as per guidelines and requirements are not met	Some section of code is correct	Most section of code is correct and understands it well	The code is properly written, and have good understanding about it

CLO 2

Marks	1	2	3	4
Model Implementation	The model is not implemented as per guidelines and requirements are not met	Some section of model is correctly implemented	Most section of model is correctly implemented and understands it well	The model is properly implemented, and have good understanding about it

CLO 3

Marks	1	2	3	4
Data Pre-processing	The data is not pre-processed as per guidelines and requirements are not met	Some section of data pre-processing is correct	Most section of data pre-processing is correct and understands it well	The data pre-processing is done properly, and have good understanding about it

CLO 4

Marks	1	2	3	4
Team Work	Rarely listens to, shares with, and supports the efforts of others. Often is not a good team member.	Often listen to, shares with and supports the efforts of others, but sometimes is not good team member.	Usually listen to, shares with, and supports the efforts of others. Usually, respectful and listening actively	Almost always listens to, shares with and supports the efforts of others. Tries to keep people working well together.

Lab Report Rubric: *must be submitted in next lab.*

Marks	1	2	3	4
Lab Report	The lab report does not follow the guidelines for formatting.	Presents some sections of the lab in the correct order. Three or more sections are not in the	Presents most sections of the lab in the correct order, one or two sections may not be in the correct order;	Presents all the sections of the lab in the correct order with correct formatting: includes

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		correct order; missing heading or title;	heading or title missing or not complete;	correct heading, section headings and title of lab;