**UNIVERSITY OF ENGINEERING AND TECHNOLOGY PESHAWAR, JALOZAI CAMPUS**

**Lab 14: Open Ended**

**Lab Title:** **EE-271** “**OOP & Data Structures Lab**”

Note: Using the internet is encouraging for finding relevant code and modifying it for the problem at hand.

**Date:** Tuesday, January 07, 2025 Time: 60 min/ Task

**Problem Statement**

This Lab aims to understand the statistical analysis that will help understand the relationship between house features and how these variables are used to predict house prices.

**Objective**

* Utilization of OOP concept to understand different library’s structures.
* Understand the structure of different libraries based on the concepts developed throughout this lab.
* Explorative Data Analysis (EDA).
* Predict the house price.
* Using two models to minimize the difference between predicted and actual rating.

**Dataset:**

The dataset is available on Kaggle, and you can get it from the following link.

* <https://www.kaggle.com/datasets/harlfoxem/housesalesprediction>

**Recommended Reading:**

Many tutorials, video lectures, and blogs are available online.

* <https://towardsdatascience.com/house-prices-prediction-using-deep-learning-dea265cc3154>

**Rubrics:**

1. Understand different libraries and its purpose.
2. Identify five OOP concepts.