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| **R - Linear Regression Class Assessment** | **[Time: 3 hrs] [Total Marks: 70 ]** |

**Property Price Prediction**

# Abstract:

A key challenge for property sellers is to determine the sale price of the property. The ability to predict the exact property value is beneficial for property investors as well as for buyers to plan their finances according to the price trend. The property prices depend on the number of features like the property area, basement square footage, year built, number of bedrooms, and so on.

# Problem Statement:

Use regression analysis to predict the price of a property using R.

# Dataset Information:

Price – Sales price in $000 per acre

Size – Size of the property in acres

Elevation – Average Elevation in foot above sea level

Sewer – Distance (in feet) to nearest sewer connection

Days – Date of sale counting backward from current time (in days)

Flood – Subject to flooding by tidal action =1; otherwise =0

Distance – Distance in miles from city centre

# Scope:

* Exploratory data analysis
* Checking assumptions of linear regression
* Training linear regression model for prediction

# Learning Outcome:

The students will get a better understanding of how the variables are linked to each other and how the EDA approach will help them gain more insights and knowledge about the data that we have.