Week 5: Introduction to Data Science

1. Mini Project: EDA on a real-world dataset

Perform Exploratory Data Analysis (EDA) on the "Heart Disease" dataset. This dataset contains various attributes related to heart disease.

Objectives:
   a. Understand the structure and content of the Heart Disease dataset.
   b. Perform data cleaning and preprocessing.
   c. Conduct univariate, bivariate, and multivariate analyses.
   d. Visualize the findings using various plots.

Dataset:
website = https://archive.ics.uci.edu/dataset/45/heart+disease
url =
https://archive.ics.uci.edu/ml/machine-learning-databases/heart-disease/processed.cleveland.data

2. Python coding challenge

Problem Statement: Given a string s, find the longest palindromic substring in s.
Note: A palindrome is a string that reads the same forward and backward. For example, "madam" and "racecar" are palindromes.
Below are examples.
Input: "babad" → Output: "bab" or Output: "aba" is also a valid answer.
Input: "cbbd" → Output: "bb"
Input: "d" → Output: "d"