Unit -6: GUI with JavaFX

Assignments:

1. Define JavaFX and discuss its significance in modern Java application development. Highlight at least three key features that make JavaFX a preferred choice for building graphical user interfaces.
2. Explain HBox and VBox layouts of JavaFX with example.
3. Compare and contrast JavaFX and Swing as Java UI frameworks. Discuss at least three architectural differences and explain how JavaFX introduces advancements over Swing in terms of graphics rendering and user interface design.
4. What is a LayoutManager and explain the different types of LayoutManager with an example. (FlowPane, BorderPane,HBox, VBox, GridPane)

5. Design and develop below registration form using JavaFX UI controls.