Day6: Topics for today!!!!

Java JFrame

Today you guys will learn about **JFrame basics**

- ❖ JFrame:-
  - ➤ The class JFrame is an extended version of java.awt.Frame that adds support for the JFC/Swing component architecture.

Class Declaration

- ➤ public class JFrame
  extends Frame
  implements WindowConstants, Accessible, RootPaneContainer
- ➤ JFrame in java is used mainly for GUI framework.

➤ Class Constructors

Sr.No.	Constructor & Description
1	**JFrame()** Constructs a new frame that is initially invisible.
2	**JFrame(GraphicsConfiguration gc)** Creates a Frame in the specified GraphicsConfiguration of a screen device and a blank title.
3	**JFrame(String title)** Creates a new, initially invisible Frame with the specified title.
4	**JFrame(String title, GraphicsConfiguration gc)** Creates a JFrame with the specified title and the specified GraphicsConfiguration of a screen device.

- ➢ I highly recommend you all to research about Jframe , below I have provided few video link you can watch to understand Jframe
- ➢ Video link were u can understand how to create a simple window in java
  - https://www.youtube.com/watch?v=MNV2FyA96XM
  - https://www.youtube.com/watch?v=mDxEGtMNPtA

- ➢ Documentation to read about more components in JFrame.
  - https://www.tutorialspoint.com/swing/swing_jframe.htm
  - https://docs.oracle.com/javase/tutorial/uiswing/components/frame.html

- ➢ Code to build a GUI in java using JFRAME :

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

public class JFrameExample {
  public static void main(String s[]) {
    JFrame frame = new JFrame("JFrame Example");
    JPanel panel = new JPanel();
    panel.setLayout(new FlowLayout());
    JLabel label = new JLabel("JFrame By Example");
    JButton button = new JButton();
    button.setText("Button");
    panel.add(label);
    panel.add(button);
    frame.add(panel);
    frame.setSize(200, 300);
    frame.setLocationRelativeTo(null);
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    frame.setVisible(true);
  } }
```
  - ➢ I suggest you to run and see what the output of this code is :

Exercise for JFrame:

1) write a java code to create a gui using JFrame which has 2 buttons in it :

2) write a java code to make 2 Jframe with 2 buttons in each Frame and connect them together.