

## EXPERIMENT NO. 1

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Branch: Mechatronics

Group: A

Semester: 3

Subject Name: APPLICATIONS OF MATLAB

Subject Code: 21O-20MTY-235

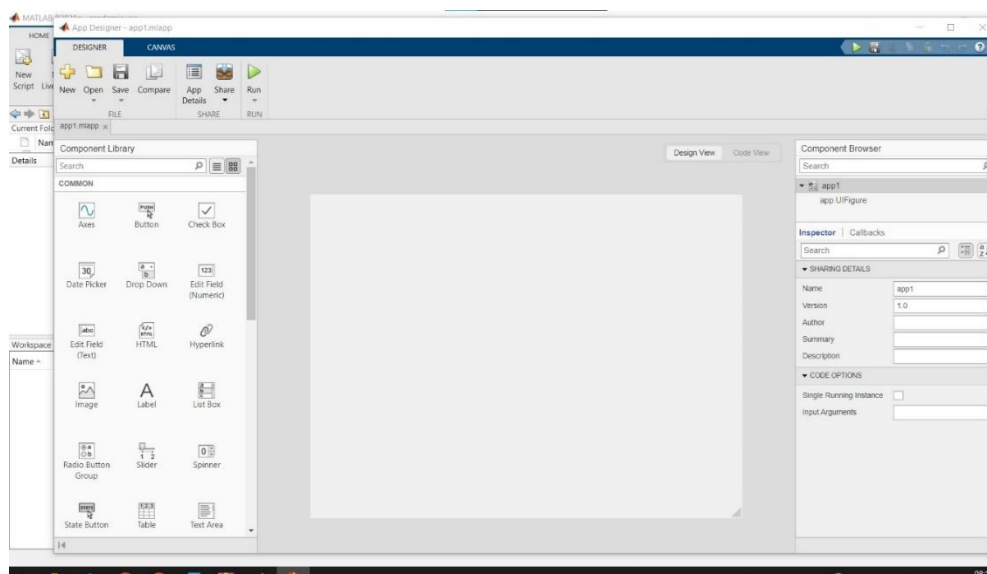
**OBJECTIVE:** Design and Implement a GUI app for displaying a Hello World

**Description:** Step 1: We have to type the command “**appdesigner**” in the command window which will open a new window in which we can design our GUI app

Step 2: This new window it consists 3 major parts:

1. first is our workspace
2. Second is our components section
3. Third is editor section

The workspace consists of design window and code window. In design window we can build our app and in code window we can make and edit the code as per our requirement.



Step 3: In workspace we will design an app which will print " Hello World" for that we will take out one button and text display to display our desire text from component library.

Step 4: After that right click on button then click on “callbacks” option which will direct us to editor view of code.

Step 5: Then add this text “**app.DisplayEditField.Value='Hello World'**” to its referred place.

```
classdef app1 < matlab.apps.AppBase

    % Properties that correspond to app components
    properties (Access = public)
        UIFigure        matlab.ui.Figure
        EditField        matlab.ui.control.EditField
        DISPLAYButton    matlab.ui.control.Button
    end

    % Callbacks that handle component events
    methods (Access = private)

        % Button pushed function: DISPLAYButton
        function DISPLAYButtonPushed(app, event)

        end

    end

    % Component initialization
    methods (Access = private)

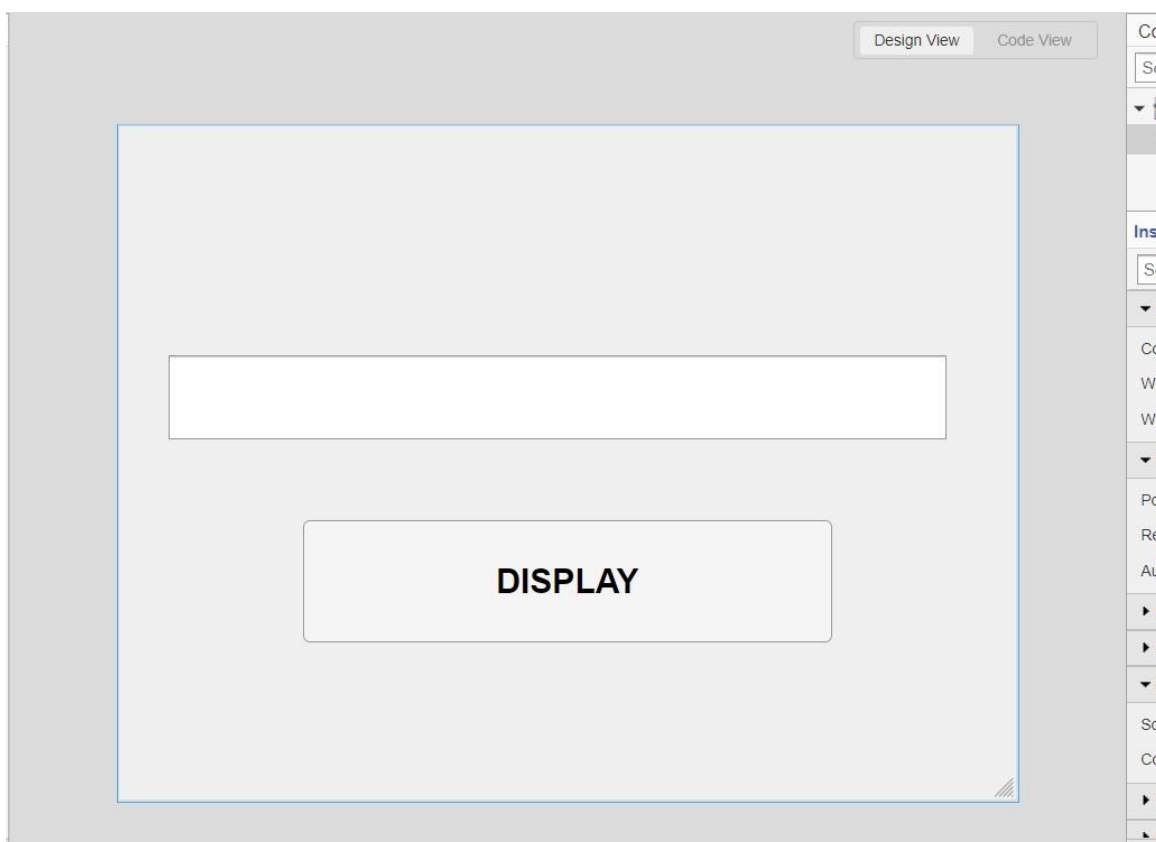
        % Create UIFigure and components
        function createComponents(app)

            % Create UIFigure and hide until all components are created
            app.UIFigure = uifigure('Visible', 'off');
            app.UIFigure.Position = [100 100 640 480];
            app.UIFigure.Name = 'MATLAB App';

            % Create DISPLAYButton
            app.DISPLAYButton = uibutton(app.UIFigure, 'push');
```

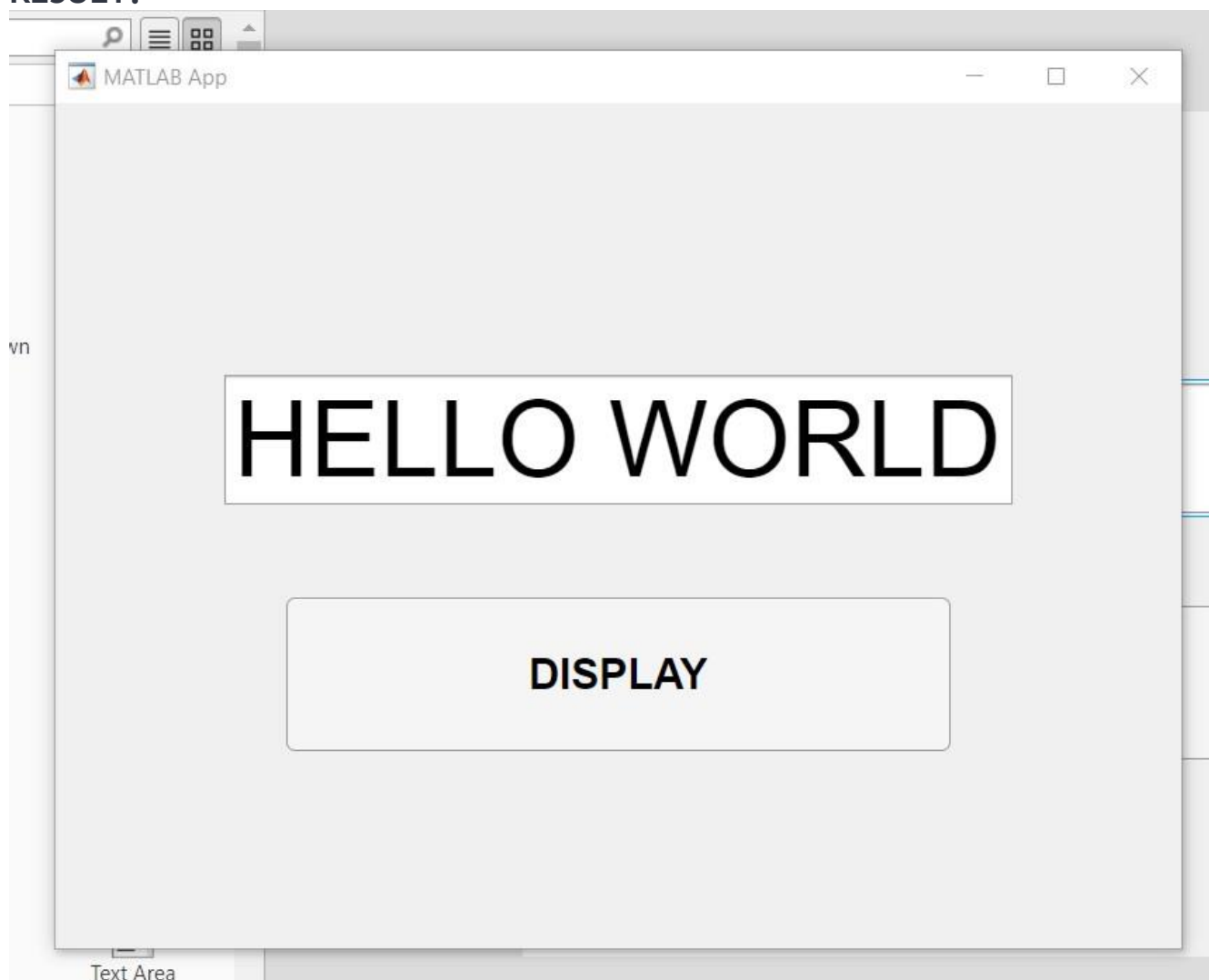
Step 6: Then save your file and RUN the program.

Step 7: Then our app preview is appeared.



Step 5: Then add this text “`app.DisplayEditField.Value='Hello World'`” to its referred place.

## RESULT:



We can see HELLO WORLD on screen.

**DISCUSSION:** From this experiment we have learnt that basic about GUI in MATLAB. We came to know hoe to make an app which will display “HELLO WORLD” as per our experiment and we our able to make our MATLAB app.

## Appendix:



app1111.mlapp