Experiment:- 4

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Semester: 6th   **Subject Code: 20CSP-356**
Subject Name: MAD Lab
Date of Performance: 30-03-2023

Aim/Overview of the practical:-

Create an application that takes the name from a text box and shows hello message along with the name entered in text box, when the user clicks the OK button.

Objective:-
To create an android application with text box and button

Steps:
1. Create a New Project
2. Add the App Widget to the Project. Right-Click on the app, move the cursor to new, find the "Widget" option at the end, select it.
3. Specify the required properties for the widget such as min. width and height, config file and preferred language, etc, and proceed. Files are automatically generated.
4. Create Code according to app requirements.
5. Select your device and run the code.

CODE:-

xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"    android:layout_height="match_parent"
    tools:context=".MainActivity">


<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"        android:layout_height="match_parent"
android:background="#FFFF8D"
    tools:context="com.example.akshay.mrcet.MainActivity">


<TextView android:id="@+id/textView"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true"
android:layout_alignParentTop="true"
android:text="NAME"
  android:textSize="20sp"
    android:layout_margin="20dp"/>


<TextView android:id="@+id/textView2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:textSize="20sp"        android:text="PASSWORD"
```

```
android:layout_marginTop="38dp"
android:layout_below="@+id/textView"
android:layout_alignLeft="@+id/textView"
android:layout_alignStart="@+id/textView"/>


  <EditText android:id="@+id/editName"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:ems="10"
    android:inputType="textPersonName"


android:hint="Enter Name"
android:layout_alignParentTop="true"
android:layout_alignParentRight="true"
android:layout_alignParentEnd="true"
android:layout_marginTop="5dp"
android:layout_alignLeft="@+id/editPassword"
    android:layout_alignStart="@+id/editPassword"/>


  <EditText android:id="@+id/editPassword"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:ems="10"        android:hint="Enter
Password"
android:inputType="textPassword"
android:layout_alignBottom="@+id/textView2"
android:layout_alignParentRight="true"
android:layout_alignParentEnd="true"
android:layout_marginRight="18dp"
    android:layout_marginEnd="18dp"/>
```

```xml
    <Button android:id="@+id/buttonSubmit"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true"

android:layout_below="@+id/textView2"
android:layout_marginTop="20dp"
 android:layout_marginLeft="20dp"
     android:text="SUBMIT"/>



 <Button android:id="@+id/buttonReset"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
   android:text="RESET"
android:layout_alignBaseline="@+id/buttonSubmit"
android:layout_alignBottom="@+id/buttonSubmit"
     android:layout_centerHorizontal="true"/>



   <TextView android:id="@+id/tvResult"
   android:layout_width="wrap_content"


   android:layout_height="wrap_content"
android:layout_alignParentBottom="true"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true"
android:layout_marginBottom="143dp"
     android:textSize="30sp"/>
</RelativeLayout>
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

java:

```java
package com.example.myapplication;


import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
import android.view.View; import
android.widget.Button; import
android.widget.EditText;
import android.widget.TextView;


public class MainActivity extends AppCompatActivity {
    // These are the global variables
    EditText editName, editPassword;
    TextView result;
    Button buttonSubmit, buttonReset;


@Override
    protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);


        editName  = (EditText) findViewById(R.id.editName);
editPassword = (EditText) findViewById(R.id.editPassword);
result = (TextView) findViewById(R.id.tvResult);
 buttonSubmit = (Button) findViewById(R.id.buttonSubmit);
buttonReset = (Button) findViewById(R.id.buttonReset);
        /*
            Submit Button
```

```java
        */
        buttonSubmit.setOnClickListener(new View.OnClickListener() {


    @Override
        public void onClick(View v) {
            String name = editName.getText().toString();
String password = editPassword.getText().toString();

result.setText("Name:\t" + name + "\nPassword:\t" + password );


        }
    });

    /*
        Reset Button
    */


buttonReset.setOnClickListener(new View.OnClickListener() {
        @Override
    public void onClick(View v)
{
editName.setText("");
editPassword.setText("");
result.setText("");
        editName.requestFocus();
        }
    });
} }
```

Output: