



# **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

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## **Experiment:- 4**

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**Branch: BE-CSE**

**Semester: 6th**

**Subject Name: MAD Lab**

**Date of Performance: 30-03-2023**

**UID: 20BCS1817**

**Section/Group: 20BCS-DM-716/B**

**Subject Code: 20CSP-356**

### **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.



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## CODE:-

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="#FFFFFF8D"
    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"
```



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```
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"/>
```



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```
<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>
```



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

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
```



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```
*/  
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();  
    }  
});  
} }
```



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Output:

The image shows a mobile application interface on a smartphone. The status bar at the top displays the time as 10:49 and various icons. The app's title bar is purple and reads 'My Application'. The main content area has a yellow background. It contains a login form with two input fields: 'NAME' with the value 'Nikhil' and 'PASSWORD' with masked characters '\*\*\*\*\*'. Below these fields are two purple buttons labeled 'SUBMIT' and 'RESET'. At the bottom of the screen, the user's details are displayed: 'Name: NIKHIL' and 'Password: 12345678'.