Brainware University BCA-2022 SEC – G GROUP - 2Paper name-Android Programming Lab Paper Code-BCAS591



Android activity life cycle: Design and develop an application to demonstrate the android activity life cycle. Also demonstrate the whole process through proper diagram.

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
        <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
          android:layout_width="match_parent"
          android:layout height="match parent"
          android:orientation="vertical"
          android:padding="16dp">
          <EditText
            android:id="@+id/emailEditText"
            android:layout width="match parent"
            android:layout height="wrap content"
            android:hint="Email"
            android:inputType="textEmailAddress" />
          <EditText
            android:id="@+id/passwordEditText"
            android:layout width="match parent"
            android:layout height="wrap content"
            android:hint="Password"
            android:inputType="textPassword" />
          <Button
            android:id="@+id/submitButton"
            android:layout width="wrap content"
            android:layout_height="wrap_content"
            android:text="Submit"
            android:layout_marginTop="16dp"/>
          <Button
            android:id="@+id/resetButton"
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:text="Reset"
            android:layout marginTop="8dp"/>
          <TextView
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                 Shiwam Gupto
```

Student Signature-

```
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Paper name-Android Programming Lab
Paper Code-BCAS591
```



```
android:id="@+id/displayTextView"
    android:layout_width="match_parent"
    android:layout height="wrap content"
    android:text=""
    android:layout_marginTop="16dp"
    android:textSize="18sp"/>
</LinearLayout>
```

```
MainActivity.java
         package com.example.life cycle;
         import android.os.Bundle;
         import android.util.Log;
         import android.widget.EditText;
         import android.widget.TextView;
         import androidx.appcompat.app.AppCompatActivity;
         public class MainActivity extends AppCompatActivity {
           private EditText emailEditText;
           private EditText passwordEditText;
           private TextView displayTextView;
           private static final String TAG = "life cycle";
           // Called when the activity is first created.
           @Override
           protected void onCreate(Bundle savedInstanceState) {
             super.onCreate(savedInstanceState);
             setContentView(R.layout.activity main);
             Log.d(TAG, "onCreate called");
           }
           // Called when the activity becomes visible to the user.
           @Override
           protected void onStart() {
             super.onStart();
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```

```
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GROUP - 2
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             Log.d(TAG, "onStart called");
           }
           // Called when the activity starts interacting with the user.
           @Override
           protected void onResume() {
             super.onResume();
             Log.d(TAG, "onResume called");
           }
           // Called when the system is about to put the activity into the background.
           @Override
           protected void onPause() {
             super.onPause();
             Log.d(TAG, "onPause called");
           }
           // Called when the activity is no longer visible to the user.
           @Override
           protected void onStop() {
             super.onStop();
             Log.d(TAG, "onStop called");
           }
           // Called before the activity is destroyed.
           @Override
           protected void onDestroy() {
             super.onDestroy();
             Log.d(TAG, "onDestroy called");
           }
           // Called after the activity has been stopped, just prior to it being started again.
           @Override
           protected void onRestart() {
             super.onRestart();
             Log.d(TAG, "onRestart called");
           }
         }
```

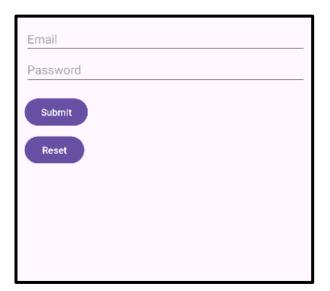
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• Output: -



Logcat Output: -



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