

## WEEK-9

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- 

### Implementation of Activity life cycle along with dialog box:

#### Activity\_main.xml :

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/LinearLayout1"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <Button
        android:id="@+id/btnHello"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:onClick="sayHello"
        android:text="Click To View Welcome Message"/>

</LinearLayout>
```

## MainActivity.java

```
package dialog.com.dialog;

import android.app.Activity;
import android.app.Dialog;
import android.support.v7.app.ActionBarActivity;
import android.os.Bundle;
import android.util.Log;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.TextView;

public class MainActivity extends Activity {

    private final String TAG="ActivityLifeCycle";

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        Log.d(TAG,"onCreate() called");

    }

    public void sayHello(View view)

    {

        Dialog dialog=new Dialog(this);

        dialog.setTitle("Message");

        TextView textView=new TextView(this);

        textView.setText("Welcome to Dialog App");
```

```
        textView.setPadding(20,20,20,20);  
        dialog.setContentView(textView);  
        dialog.show();  
    }
```

//Implementation of onStart Method

```
public void onStart() {  
    super.onStart();  
    Log.d(TAG,"onStart() called");  
}
```

//Implementation of onRestart Method

```
public void onRestart() {  
    super.onRestart();  
    Log.d(TAG,"onRestart() called");  
}
```

//Implementation of onResume Method

```
public void onResume() {  
    super.onResume();  
    Log.d(TAG,"onResume() called");  
}
```

//Implementation of onPause Method

```
public void onPause() {  
    super.onPause();  
    Log.d(TAG,"onPause() called");  
}
```

//Implementation of onStop Method

```
public void onStop() {  
    super.onStop();  
    Log.d(TAG,"onStop() called");  
}
```

//Implementation of onDestroy Method

```
public void onDestroy() {  
    super.onDestroy();  
    Log.d(TAG,"onDestroy() called");  
}
```

@Override

```
public boolean onCreateOptionsMenu(Menu menu) {  
  
    // Inflate the menu; this adds items to the action bar if it is present.  
  
    getMenuInflater().inflate(R.menu.menu_main, menu);  
  
    return true;  
  
}
```

@Override

```
public boolean onOptionsItemSelected(MenuItem item) {  
  
    // Handle action bar item clicks here. The action bar will  
  
    // automatically handle clicks on the Home/Up button, so long  
  
    // as you specify a parent activity in AndroidManifest.xml.  
  
    int id = item.getItemId();  
  
    //noinspection SimplifiableIfStatement  
  
    if (id == R.id.action_settings) {  
  
        return true;  
  
    }  
  
}
```

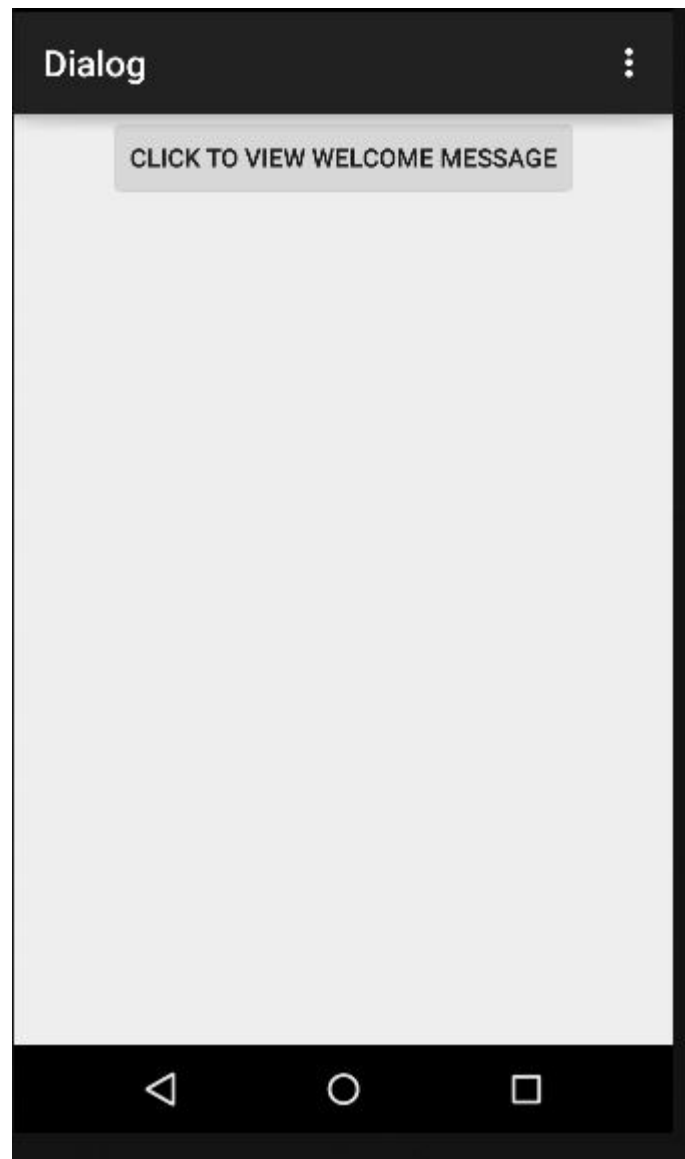
```
        return super.onOptionsItemSelected(item);  
    }  
}
```

## **OUTPUT SNAPSHOT :**

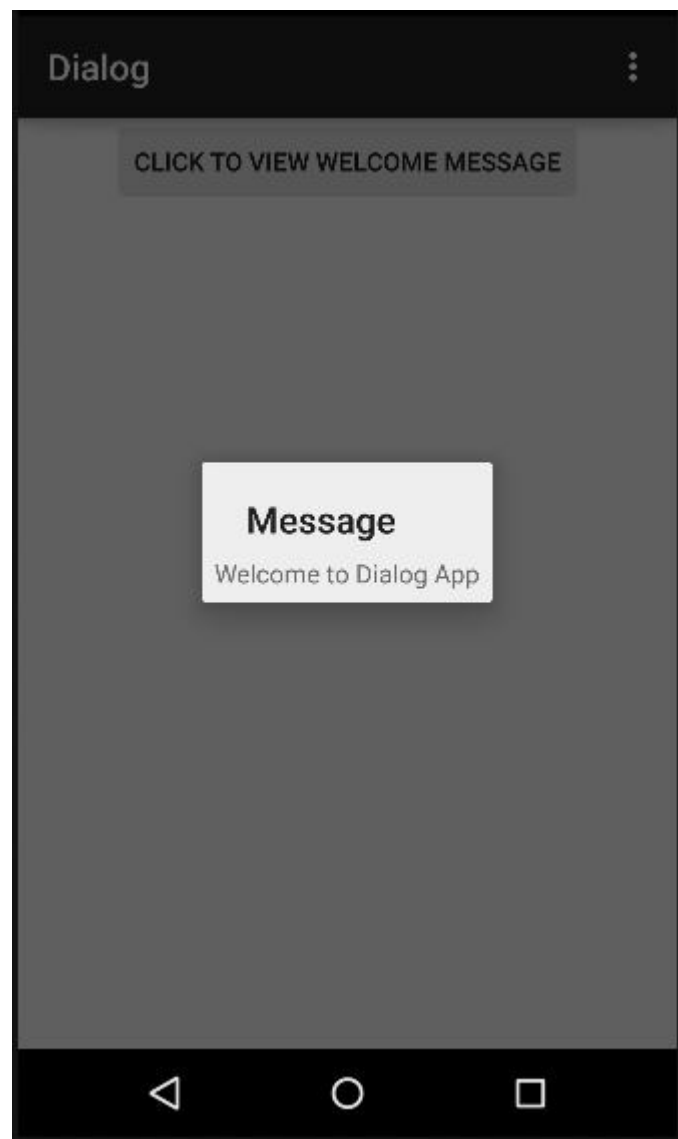
### **ICON**



## MainActivity



**Click on welcome button :**



**Activity life cycle :**

**screen 1**

```
04-06 08:24:58.258 2407-2407/dialog.com.dialog D/ActivityLifecycle: onCreate() called
04-06 08:24:58.259 2407-2407/dialog.com.dialog D/ActivityLifecycle: onStart() called
04-06 08:24:58.259 2407-2407/dialog.com.dialog D/ActivityLifecycle: onResume() called
```

**screen 2**

```
04-06 08:25:59.753    2407-2407/dialog.com.dialog D/ActivityLifecycle: onPause() called
04-06 08:25:59.769    2407-2407/dialog.com.dialog D/ActivityLifecycle: onStop() called
```

## screen 3

```
-----
04-06 08:26:10.360    2407-2407/dialog.com.dialog D/ActivityLifecycle: onRestart() called
04-06 08:26:10.366    2407-2407/dialog.com.dialog D/ActivityLifecycle: onStart() called
04-06 08:26:10.367    2407-2407/dialog.com.dialog D/ActivityLifecycle: onResume() called
-----
```

## screen 4

```
04-06 08:23:26.829    2407-2407/dialog.com.dialog D/ActivityLifecycle: onPause() called
04-06 08:23:27.741    2407-2407/dialog.com.dialog D/ActivityLifecycle: onStop() called
04-06 08:23:27.741    2407-2407/dialog.com.dialog D/ActivityLifecycle: onDestroy() called
```