P#3 Activity Life Cycle Methods

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ARUNOTH SYMEN A

Program:

Kotlin Code:

```kotlin
package com.example.mad31

import android.graphics.Color
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.util.Log // Import Log
import android.widget.Button
import android.widget.Toast
import com.google.android.material.snackbar.Snackbar

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        Log.i("LogName", "On Create Activity started") // Use Log
        Toast.makeText(this, "On Create Activity started",
Toast.LENGTH_LONG).show()
    }

    override fun onStart() {
        super.onStart()

        Log.i("LogName", "On Start Activity started") // Use Log
        Toast.makeText(this, "On Start Activity started",
Toast.LENGTH_LONG).show()
    }

    override fun onResume() {
        super.onResume()

        Log.i("LogName", "On Resume Activity started") // Use Log
        Toast.makeText(this, "On Resume Activity started",
Toast.LENGTH_LONG).show()
    }

    override fun onPause() {
        super.onPause()
```

```
        Log.i("LogName", "On Pause Activity started") // Use Log
        Toast.makeText(this, "On Pause Activity started",
Toast.LENGTH_LONG).show()
    }

    override fun onStop() {
        super.onStop()

        Log.i("LogName", "On Stop Activity started") // Use Log
        Toast.makeText(this, "On Stop Activity started",
Toast.LENGTH_LONG).show()
    }

    override fun onDestroy() {
        super.onDestroy()

        Log.i("LogName", "On Destroy Activity started") // Use Log
        Toast.makeText(this, "On Destroy Activity started",
Toast.LENGTH_LONG).show()
    }
}
```

XML Code Splash Screen Code:

```xml
<?xml version="1.0" encoding="utf-8"?>
<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"
    tools:context=".MainActivity2">


    <ImageView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:scaleType="centerCrop"
        android:src="@drawable/bg" />

    <pl.droidsonroids.gif.GifImageView
        android:id="@+id/gifImageView"
        android:layout_width="287dp"
        android:layout_height="121dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
```

```
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginStart="61dp"
        android:layout_marginTop="547dp"
        android:layout_marginEnd="62dp"
        android:layout_marginBottom="62dp"
        android:adjustViewBounds="false"
        android:src="@drawable/loading" />


</RelativeLayout>
```

XML Code Home Screen Code:

```xml
<?xml version="1.0" encoding="utf-8"?>
<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">

    <ImageView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:scaleType="centerCrop"
        android:src="@drawable/appbg" />

    <TextView
        android:id="@+id/hello_world_textview"
        android:layout_width="374dp"
        android:layout_height="54dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_centerVertical="true"
        android:layout_marginStart="24dp"
        android:layout_marginTop="313dp"
        android:layout_marginEnd="13dp"
        android:text="ARUNOTH SYMEN A"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="24sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/hello_world_textview1"
```
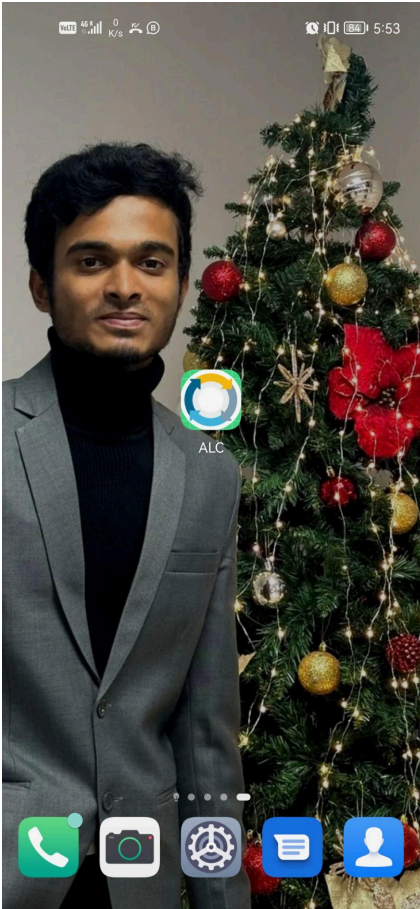
```xml
        android:layout_width="374dp"
        android:layout_height="54dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_centerVertical="true"
        android:layout_marginStart="24dp"
        android:layout_marginTop="342dp"
        android:layout_marginEnd="13dp"
        android:text="3MCA B"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="24sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/textview1"
        android:layout_width="191dp"
        android:layout_height="57dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_centerVertical="true"
        android:layout_marginStart="112dp"
        android:layout_marginTop="414dp"
        android:layout_marginEnd="107dp"
        android:text="2347215"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="24sp"
        android:textStyle="bold" />

</RelativeLayout>
```
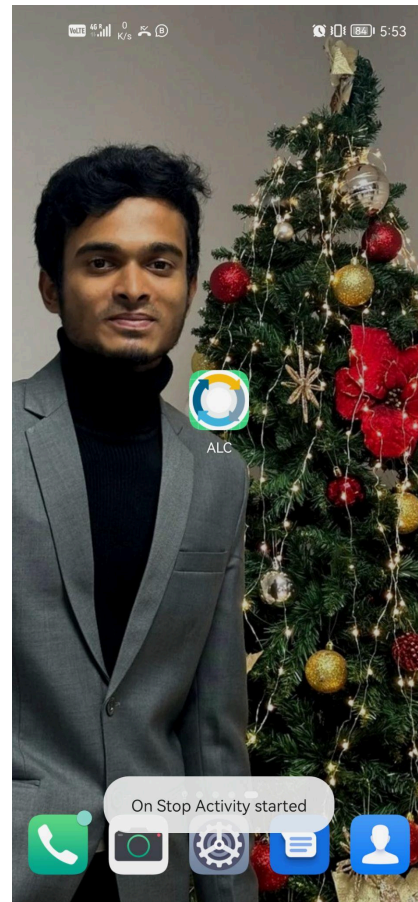
Output Screen:

ALC

On Destroy Activity started

ALC

On Stop Activity started

Android Studio — MAD3.1 — HUAWEI YAL-L21 — app

Logcat (package:mine) — HUAWEI YAL-L21 (SDEDU20304000615) Android 10, A...

```
2024-02-21 19:03:02.381 26188-26188 HwViewRootImpl        com.example.mad31   I  removeInvalidNode jank list is null
2024-02-21 19:03:02.383 26188-26188 DecorView             com.example.mad31   D  showOrHideHighlightView: hasFocus=true; winMode=1; isMrgNull=true
2024-02-21 19:03:02.383 26188-26188 InputMethodManager    com.example.mad31   W  startInputReason = 1
2024-02-21 19:03:02.384 26188-26188 HwRemoteIn...hodManager com.example.mad31 W  isCasting false because IHwDistributedWindowManager is invalid.
2024-02-21 19:03:02.391 26188-26188 InputMethodManager    com.example.mad31   W  startInputReason = 5
2024-02-21 19:03:02.495 1651-1858   WindowManager         system_server       E  win=Window{1f228bc u0 Splash Screen com.example.mad31 EXITING} destroySurface
2024-02-21 19:03:02.738 26188-26434 StubController        com.example.mad31   I  system app validUid:10177, isFriend:true
2024-02-21 19:03:05.238 26188-26188 RtgSchedManager       com.example.mad31   E  endActivityTransaction: margin state not match
2024-02-21 19:03:05.249 26188-26188 RtgSchedManager       com.example.mad31   E  endActivityTransaction: margin state not match
2024-02-21 19:03:05.249 26188-26188 ActivityThread        com.example.mad31   W  handleWindowVisibility: no activity for token android.os.BinderProxy@add9ed1
2024-02-21 19:03:05.249 26188-26188 RtgSchedManager       com.example.mad31   E  endActivityTransaction: margin state not match
2024-02-21 19:03:05.257 26188-26188 ActivityThread        com.example.mad31   V  callActivityOnCreate
2024-02-21 19:03:05.264 26188-26188 DecorView[]           com.example.mad31   D  pkgName:com.example.mad31 old windowMode:0 new windoMode:1, isFixedSize:false
2024-02-21 19:03:05.282 26188-26188 LogName               com.example.mad31   I  On Create Activity started
2024-02-21 19:03:05.289 26188-26188 ActivityThread        com.example.mad31   D  add activity client record, r= ActivityRecord{4e8253b token=android.os.Binde
2024-02-21 19:03:05.291 26188-26188 LogName               com.example.mad31   I  On Start Activity started
2024-02-21 19:03:05.298 26188-26188 LogName               com.example.mad31   I  On Resume Activity started
2024-02-21 19:03:05.305 26188-26188 MouseWheelSynthesizer com.example.mad31   D  mMoveStepInDp: 64, mMoveStepInPixel: 192, mUpTimeDelayed: 100
2024-02-21 19:03:05.305 26188-26188 ViewRootImpl          com.example.mad31   D  ViewRootImpl mIsInProductivePCDisplay: false
2024-02-21 19:03:05.311 26188-26188 InputEventReceiver    com.example.mad31   D  dispatchInputInterval 1000000
2024-02-21 19:03:05.313 26188-26188 RtgSchedManager       com.example.mad31   E  endActivityTransaction: margin state not match
2024-02-21 19:03:05.313 2519-2867   DollieAdapterService  com.huawei.systemserver E  notifyActivityState pkg:com.example.mad31/com.example.mad31.MainActivity sta
2024-02-21 19:03:05.319 26188-26565 HiTouch_Pr...reDetector com.example.mad31 D  onAttached, package=com.example.mad31, windowType=1, mIsHiTouchRestricted=fa
2024-02-21 19:03:05.327 26188-26331 mali_winsys           com.example.mad31   D  EGLint new_window_surface(egl_winsys_display *, void *, EGLSurface, EGLConfi
2024-02-21 19:03:05.362 26188-26188 RtgSchedManager       com.example.mad31   E  endActivityTransaction: margin state not match
2024-02-21 19:03:05.362 26188-26188 DecorView             com.example.mad31   D  showOrHideHighlightView: hasFocus=false; winMode=1; isMrgNull=true
```

MAD31 > app > src > main > res > layout > activity_main2.xml

```
2024-02-21 19:03:05.319 26188-26565 HiTouch_Pr...reDetector com.example.mad31 D  onAttached, package=com.example.mad31, windowType=1, mIsHiTouchRestricted=fa
2024-02-21 19:03:05.327 26188-26331 mali_winsys           com.example.mad31   D  EGLint new_window_surface(egl_winsys_display *, void *, EGLSurface, EGLConfi
2024-02-21 19:03:05.362 26188-26188 RtgSchedManager       com.example.mad31   E  endActivityTransaction: margin state not match
2024-02-21 19:03:05.362 26188-26188 DecorView             com.example.mad31   D  showOrHideHighlightView: hasFocus=false; winMode=1; isMrgNull=true
2024-02-21 19:03:05.374 26188-26188 MouseWheelSynthesizer com.example.mad31   D  mMoveStepInDp: 64, mMoveStepInPixel: 192, mUpTimeDelayed: 100
2024-02-21 19:03:05.374 26188-26188 ViewRootImpl          com.example.mad31   D  ViewRootImpl mIsInProductivePCDisplay: false
2024-02-21 19:03:05.442 26188-26188 InputEventReceiver    com.example.mad31   D  dispatchInputInterval 1000000
2024-02-21 19:03:05.452 26188-26331 mali_winsys           com.example.mad31   D  EGLint new_window_surface(egl_winsys_display *, void *, EGLSurface, EGLConfi
2024-02-21 19:03:05.484 26188-26188 DecorView             com.example.mad31   D  showOrHideHighlightView: hasFocus=true; winMode=1; isMrgNull=true
2024-02-21 19:03:05.484 26188-26188 InputMethodManager    com.example.mad31   W  startInputReason = 1
2024-02-21 19:03:05.484 26188-26188 HwRemoteIn...hodManager com.example.mad31 W  isCasting false because IHwDistributedWindowManager is invalid.
2024-02-21 19:03:05.711 26188-26331 libEGL                com.example.mad31   W  EGLNativeWindowType 0x7a7dd51610 disconnect failed
2024-02-21 19:03:05.722 26188-26188 ActivityThread        com.example.mad31   D  Remove activity client record, r= ActivityRecord{e457ec8 token=android.os.Bi
2024-02-21 19:03:05.723 26188-26188 ViewRootImpl          com.example.mad31   I  dispatchDetachedFromWindow in doDie
2024-02-21 19:03:05.728 26188-26188 RtgSchedManager       com.example.mad31   E  endActivityTransaction: margin state not match
2024-02-21 19:03:05.728 26188-26188 AwareBitmapCacher     com.example.mad31   I  init lrucache size: 2097152 pid=26188
2024-02-21 19:03:07.833 26188-26575 ProfileInstaller      com.example.mad31   D  Installing profile for com.example.mad31
2024-02-21 19:03:08.791 26188-26188 ViewRootImpl          com.example.mad31   I  dispatchDetachedFromWindow in doDie
2024-02-21 19:03:08.796 26188-26331 libEGL                com.example.mad31   W  EGLNativeWindowType 0x7a6f3b3e50 disconnect failed
2024-02-21 19:03:08.834 26188-26188 MouseWheelSynthesizer com.example.mad31   D  mMoveStepInDp: 64, mMoveStepInPixel: 192, mUpTimeDelayed: 100
2024-02-21 19:03:08.836 26188-26188 ViewRootImpl          com.example.mad31   D  ViewRootImpl mIsInProductivePCDisplay: false
2024-02-21 19:03:08.852 26188-26188 InputEventReceiver    com.example.mad31   D  dispatchInputInterval 1000000
2024-02-21 19:03:08.879 26188-26331 mali_winsys           com.example.mad31   D  EGLint new_window_surface(egl_winsys_display *, void *, EGLSurface, EGLConfi
--------------------------- PROCESS ENDED (26188) for package com.example.mad31 ---------------------------
2024-02-21 19:03:09.181 2519-2867   DollieAdapterService  com.huawei.systemserver E  notifyActivityState pkg:com.example.mad31/com.example.mad31.MainActivity sta
```

MAD31 > app > src > main > res > layout > activity_main2.xml