



# Android Class

**#Android Notes**

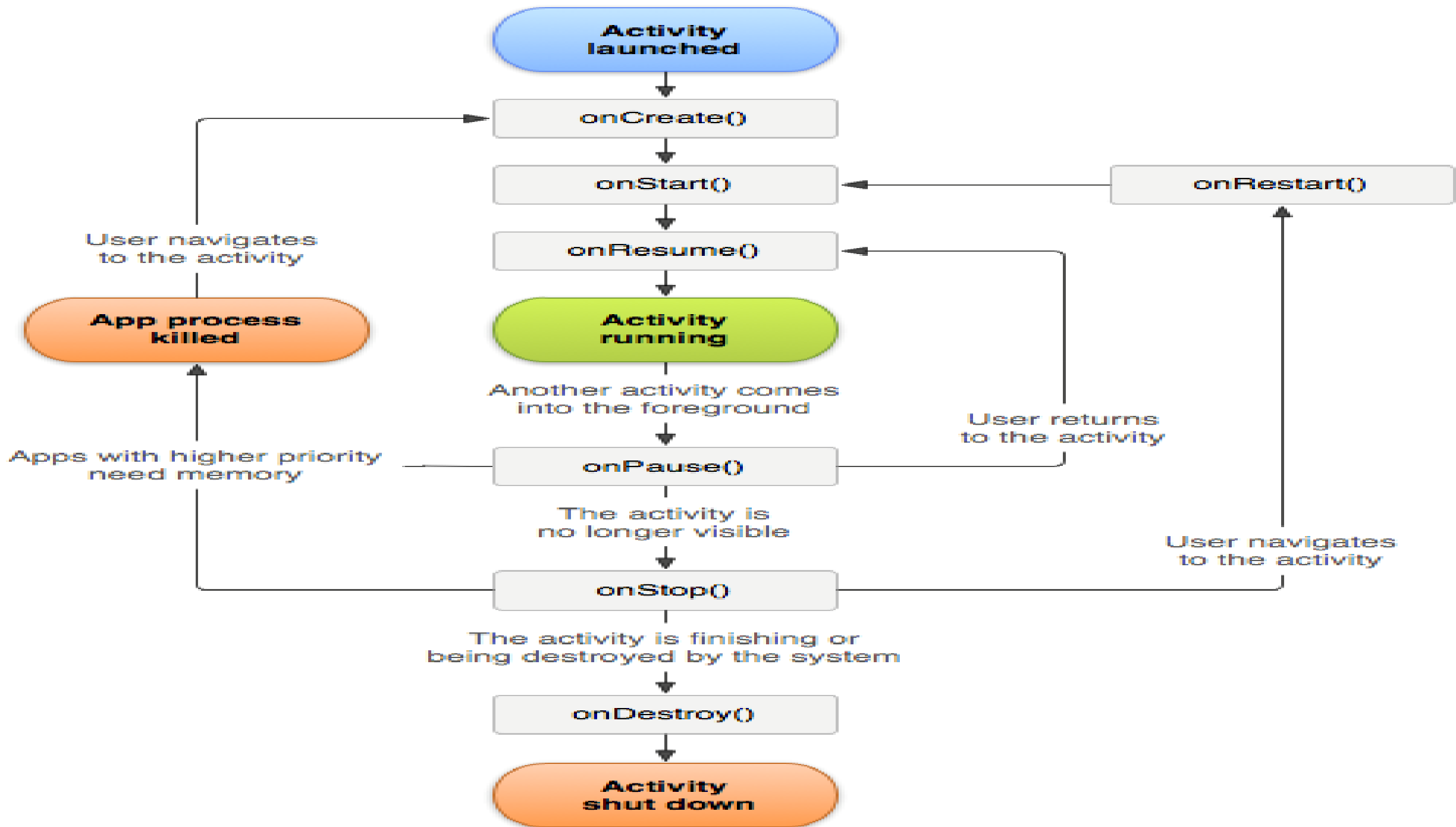
# | Activity Life Cycle



# Activity Life Cycle

- Android system initiates its program with in an **Activity** starting with a call on **onCreate()** callback method.
- There is a sequence of callback methods that start up an activity and a sequence of callback methods that tear down an activity as shown in the below Activity life cycle diagram:





# Activity Life Cycle Methods

## 1. onCreate()

- This is the first callback and called when the activity is first created.

## 2. onStart()

- This callback is called when the activity becomes visible to the user.

## 3. onResume()

- This is called when the user starts interacting with the application.



## Cont...

### 4. onPause()

- The paused activity does not receive user input and cannot execute any code and called when the current activity is being paused and the previous activity is being resumed.

### 5. onStop()

- This callback is called when the activity is no longer visible.

### 6. onDestroy()

- This callback is called before the activity is destroyed by the system.



## Cont...

### 7. onRestart()

- This callback is called when the activity restarts after stopping it.



# Example

- **Following content you need to write in activity\_main.xml file –**

```
<LinearLayout 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:orientation="vertical"
    tools:context=".LifecycleActivity">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="Activity Lifecycle"
        android:textStyle="bold"
        android:textColor="#000"
        android:textSize="30dp"
        android:gravity="center"/>
</LinearLayout>
```





## Cont...

### ■ Following content you need to write in MainActivity.java file –

```
public class MainActivity extends AppCompatActivity
{
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Log.d("TAG","onCreate called");
    }
}
```



# Cont...

@Override

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

@Override

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

@Override

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



# Cont...

@Override

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

@Override

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

@Override

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



# Output

The screenshot displays the Android Studio IDE with the following components:

- Code Editor:** Shows the `LifeCycleActivity.java` file. The code is as follows:

```
1 package com.example.devanshi.mydemo;
2
3 import ...
4
5
6
7 public class LifeCycleActivity extends AppCompatActivity {
8
9     @Override
10    protected void onCreate(Bundle savedInstanceState) {
11        super.onCreate(savedInstanceState);
12        setContentView(R.layout.activity_life_cycle);
13    }
14 }
```
- Logcat:** Shows the following log messages:

```
06-09 16:03:18.776 21140-21140/com.example.devanshi.mydemo D/TAG: onCreate called
06-09 16:03:18.787 21140-21140/com.example.devanshi.mydemo D/TAG: onStart called
06-09 16:03:18.809 21140-21140/com.example.devanshi.mydemo D/TAG: onResume called
```
- Virtual Device:** A Nexus 5 emulator is shown with the app running. The screen displays the title "MyDemo" and the text "Activity Lifecycle".



# Get Exclusive Video Tutorials



[www.apptutorials.com](http://www.apptutorials.com)

<https://www.youtube.com/user/Akashtips>





Get More Details

**[www.akashsir.com](http://www.akashsir.com)**



# If You Liked It !

## Rating Us Now



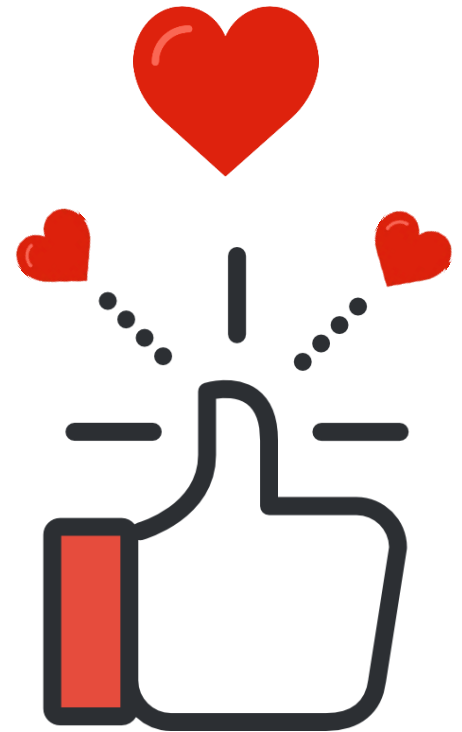
**Just Dial**

[https://www.justdial.com/Ahmedabad/Akash-Technolabs-Navrangpura-Bus-Stop-Navrangpura/079PXX79-XX79-170615221520-S5C4\\_BZDET](https://www.justdial.com/Ahmedabad/Akash-Technolabs-Navrangpura-Bus-Stop-Navrangpura/079PXX79-XX79-170615221520-S5C4_BZDET)



**Sulekha**

<https://www.sulekha.com/akash-technolabs-navrangpura-ahmedabad-contact-address/ahmedabad>



# Connect With Me



Akash Padhiyar  
#AkashSir

[www.akashsir.com](http://www.akashsir.com)

[www.akashtechlabs.com](http://www.akashtechlabs.com)

[www.akashpadhiyar.com](http://www.akashpadhiyar.com)

[www.aptutorials.com](http://www.aptutorials.com)

## # Social Info



Akash.padhiyar



Akashpadhiyar



Akash\_padhiyar



+91 99786-21654



#Akashpadhiyar  
#aptutorials