

Program

Aim: Program to implement activity lifecycle

XML Code:

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

<android.support.constraint.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="example.javatpoint.com.activitylifecycle.MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</android.support.constraint.ConstraintLayout>
```

Java Code:

```
package example.javatpoint.com.activitylifecycle;

import android.app.Activity;

import android.os.Bundle;
```

```
import android.util.Log;

public class MainActivity extends Activity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Log.d("lifecycle","onCreate invoked");
    }

    @Override
    protected void onStart() {
        super.onStart();
        Log.d("lifecycle","onStart invoked");
    }

    @Override
    protected void onResume() {
        super.onResume();
        Log.d("lifecycle","onResume invoked");
    }

    @Override
    protected void onPause() {
        super.onPause();
        Log.d("lifecycle","onPause invoked");
    }

    @Override
    protected void onStop() {
```

```

super.onStop();

Log.d("lifecycle", "onStop invoked");
}

@Override

protected void onRestart() {

super.onRestart();

Log.d("lifecycle", "onRestart invoked");
}

@Override

protected void onDestroy() {

super.onDestroy();

Log.d("lifecycle", "onDestroy invoked");
}
}
}

```

OUTPUT

```

2022-02-24 10:46:25.810 8920-8943/com.example.lifecycle D/libc++: loaded /vendor/lib/egl/libEGL_emulation.so
2022-02-24 10:46:25.856 8920-8943/com.example.lifecycle D/libEGL: loaded /vendor/lib/egl/libGLESv1_CM_emulation.so
2022-02-24 10:46:25.884 8920-8943/com.example.lifecycle D/libEGL: loaded /vendor/lib/egl/libGLESv2_emulation.so
2022-02-24 10:46:25.908 8920-8920/com.example.lifecycle D/Lifecycle: onCreate invoked
2022-02-24 10:46:25.977 8920-8920/com.example.lifecycle D/Lifecycle: onStart invoked
2022-02-24 10:46:25.985 8920-8920/com.example.lifecycle D/Lifecycle: onResume invoked
2022-02-24 10:46:26.078 8920-8941/com.example.lifecycle D/HostConnection: HostConnection::get() New Host Connection established 0xe87df960, tid 8941
2022-02-24 10:46:26.084 8920-8941/com.example.lifecycle D/HostConnection: HostComposition ext ANDROID_EMU_CHECKSUM_HELPER_v1 ANDROID_EMU_native_sync_v2 ANDROID
2022-02-24 10:46:26.094 8920-8941/com.example.lifecycle W/OpenGLESRenderer: Failed to choose config with EGL_SWAP_BEHAVIOR_PRESERVED, retrying without...
2022-02-24 10:46:26.295 8920-8941/com.example.lifecycle D/EGL_emulation: eglCreateContext: 0xe870ff10: maj 2 min 0 rcv 2
2022-02-24 10:46:26.304 8920-8941/com.example.lifecycle D/EGL_emulation: eglMakeCurrent: 0xe870ff10: ver 2 0 (tinfo 0xe8018f50) (first time)
2022-02-24 10:46:26.317 8920-8941/com.example.lifecycle I/Gralloc4: mapper 4.x is not supported
2022-02-24 10:46:26.318 8920-8941/com.example.lifecycle D/HostConnection: createUnique: call
2022-02-24 10:46:26.320 8920-8941/com.example.lifecycle D/HostConnection: HostConnection::get() New Host Connection established 0xe87df030, tid 8941
2022-02-24 10:46:26.331 8920-8941/com.example.lifecycle D/goldfish-address-space: allocate: Ask for block of size 0x100
2022-02-24 10:46:26.332 8920-8941/com.example.lifecycle D/goldfish-address-space: allocate: ioctl allocate returned offset 0x3f3ffe000 size 0x2000
2022-02-24 10:46:26.343 8920-8941/com.example.lifecycle D/HostConnection: HostComposition ext ANDROID_EMU_CHECKSUM_HELPER_v1 ANDROID_EMU_native_sync_v2 ANDROID
2022-02-24 10:46:26.601 8920-8932/com.example.lifecycle I/sample.lifecycle: Background young concurrent copying GC freed 19135(1233KB) AllocSpace objects, 0(88)
2022-02-24 10:46:26.602 8920-8934/com.example.lifecycle W/System: A resource failed to call close.
2022-02-24 10:46:26.113 8920-8920/com.example.lifecycle D/Lifecycle: onPause invoked
2022-02-24 10:46:26.121 8920-8920/com.example.lifecycle D/Lifecycle: onStop invoked
2022-02-24 10:46:26.132 8920-8920/com.example.lifecycle D/Lifecycle: onDestroy invoked
2022-02-24 10:47:03.281 8920-8934/com.example.lifecycle W/Sy [search suppressed] failed to call release.

```