

PRACTICAL-2.3

AIM:

Create an android application to demonstrate the life cycle of the activity.

PROGRAM CODE:

1. XML CODE:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.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=".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" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

2. Java Code:

```
package com.parthnpatel.lifecycle;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.util.Log;

public class MainActivity extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        Log.d("activity", "onCreate()");

    }

    @Override

    protected void onRestart(){

        super.onRestart();//call to restart after onStop

        Log.d("activity","onRestart()");
```

```
}
```

```
@Override
```

```
protected void onStart() {
```

```
    super.onStart();//soon be visible
```

```
    Log.d("activity","onStarted()");
```

```
}
```

```
@Override
```

```
protected void onResume() {
```

```
    super.onResume();//visible
```

```
    Log.d("activity","onResume()");
```

```
}
```

```
@Override
```

```
protected void onPause() {  
  
    super.onPause();//invisible  
  
    Log.d("activity","onPause()");  
  
}  
  
@Override  
  
protected void onStop() {  
  
    super.onStop();  
  
    Log.d("activity","onStopped()");  
  
}  
  
@Override  
  
protected void onDestroy() {  
  
    super.onDestroy();
```

```
        Log.d("activity","onDestroy()");

    }

}
```

OUTPUT:

```
18:39:01.231 23727-23727/com.parthnpatel.lifecycle D/activity: onCreate()
18:39:01.277 23727-23727/com.parthnpatel.lifecycle D/activity: onStart()
18:39:01.367 23727-23727/com.parthnpatel.lifecycle D/activity: onResume()
18:39:04.736 23727-23727/com.parthnpatel.lifecycle D/activity: onPause()
18:39:05.405 23727-23727/com.parthnpatel.lifecycle D/activity: onStop()
18:39:06.979 23727-23727/com.parthnpatel.lifecycle D/activity: onRestart()
18:39:06.992 23727-23727/com.parthnpatel.lifecycle D/activity: onStart()
18:39:06.994 23727-23727/com.parthnpatel.lifecycle D/activity: onResume()
18:39:08.427 23727-23727/com.parthnpatel.lifecycle D/activity: onPause()
18:39:09.010 23727-23727/com.parthnpatel.lifecycle D/activity: onStop()
18:39:09.230 23727-23727/com.parthnpatel.lifecycle D/activity: onDestroy()
```