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Course:BCA 5A

Roll no:29

Uni. Roll no:-1921085

## Create a program to depict activity life cycle

### 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>
```

### Java Code:-

```
package com.example.lifecycle;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {

    public static final String status=MainActivity.class.getSimpleName();

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Log.i(status,"In Method onCreate");
    }

    @Override
    protected void onStart() {
        super.onStart();
        Log.i(status,"In Method ONStart");
    }

    @Override
    protected void onResume() {
        super.onResume();
        Log.i(status,"In Method onResume");
    }

}
```

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```
@Override
protected void onPause() {
    super.onPause();
    Log.i(status,"In Method OnPause");
}

@Override
protected void onRestart() {
    super.onRestart();
    Log.i(status,"In Method OnRestart");
}

@Override
protected void onDestroy() {
    super.onDestroy();
    Log.i(status,"In Method OnDestroy");
}
}
```

O/p:-

The screenshot displays the Android Studio IDE. The top toolbar shows various icons for running and debugging the application. The main editor area shows the `MainActivity.java` file with the following code:

```
super.onDestroy();
Log.i(status, msg: "In Method OnDestroy");
}
```

Below the editor, the Logcat window is open, showing a list of log messages. The messages include system logs (e.g., `Landroid/graphics/Rect;Z (greylist, reflection, allowed)`) and application logs (e.g., `2021-09-07 18:03:42.833 4494-4494/com.example.lifecycle W/ample.lifecycle: Accessing hidden method Landroid/view/ViewGroup;->makeOptionalFitsSystemWindows()V (greylist, reflection, allowed)`). The bottom status bar indicates that the launch was successful 13 minutes ago.