

Q.1] Create a Application which shows Life Cycle of Activity.

activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    android:padding="16dp"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Lifecycle Callbacks"
        android:textSize="24sp"
        android:textStyle="bold"
        android:layout_marginBottom="16dp"/>

</LinearLayout>
```

MainActivity.java:

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

```
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    private TextView textView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        textView = findViewById(R.id.textView);
        textView.append("onCreate()\n");
        Log.d("Lifecycle", "onCreate()");
    }

    @Override
    protected void onStart() {
        super.onStart();
        textView.append("onStart()\n");
        Log.d("Lifecycle", "onStart()");
    }

    @Override
    protected void onResume() {
        super.onResume();
```

```
    textView.append("onResume()\n");  
    Log.d("Lifecycle", "onResume()");  
}
```

```
@Override  
protected void onPause() {  
    super.onPause();  
    textView.append("onPause()\n");  
    Log.d("Lifecycle", "onPause()");  
}
```

```
@Override  
protected void onStop() {  
    super.onStop();  
    textView.append("onStop()\n");  
    Log.d("Lifecycle", "onStop()");  
}
```

```
@Override  
protected void onDestroy() {  
    super.onDestroy();  
    textView.append("onDestroy()\n");  
    Log.d("Lifecycle", "onDestroy()");  
}
```

```
@Override  
protected void onRestart() {
```

```
super.onRestart();  
textView.append("onRestart()\n");  
Log.d("Lifecycle", "onRestart()");  
}  
}
```