Slip no - 1 Application / App name for all programs : ActivityLifecycle

1. Q1. Create a Simple Application which shows the Life Cycle of Activity.

* Note : check activity in logcat option it shows all activity method running.

MainActivity.java

*package* com.example.activitylifecycle;  
  
*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);  
 setContentView(R.layout.*activity\_main*);  
 Log.*d*("Lifecycle","oncreate method started");  
 }  
  
 @Override  
 *protected void* onStart() {  
 *super*.onStart();  
 Log.*d*("Lifecycle","onstart method started");  
 }  
  
 @Override  
 *protected void* onResume() {  
 *super*.onResume();  
 Log.*d*("Lifecycle","onresume method started");  
 }  
  
 @Override  
 *protected void* onPause() {  
 *super*.onPause();  
 Log.*d*("Lifecycle","onpause method started");  
 }  
  
 @Override  
 *protected void* onStop() {  
 *super*.onStop();  
 Log.*d*("Lifecycle","onstop method started");  
 }  
  
 @Override  
 *protected void* onRestart() {  
 *super*.onRestart();  
 Log.*d*("Lifecycle","onrestart method started");  
 }  
  
 @Override  
 *protected void* onDestroy() {  
 *super*.onDestroy();  
 Log.*d*("Lifecycle","ondestroy method started");  
 }  
}

Q2. Create an Android Application that demonstrate DatePicker and DatePickerDailog.

activity\_main.xml

<?*xml version*="1.0" *encoding*="utf-8"?>  
<RelativeLayout *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"  
 *tools:context*=".MainActivity">  
  
 <Button  
 *android:id*="@+id/button"  
 *android:layout\_width*="147dp"  
 *android:layout\_height*="68dp"  
 *android:layout\_below*="@+id/textView"  
 *android:layout\_alignParentStart*="true"  
 *android:layout\_alignParentEnd*="true"  
 *android:layout\_gravity*="center"  
 *android:layout\_marginStart*="142dp"  
 *android:layout\_marginTop*="263dp"  
 *android:layout\_marginEnd*="122dp"  
 *android:text*="Select Date" />  
  
 <TextView  
 *android:id*="@+id/textView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:textSize*="24sp"  
 *android:layout\_gravity*="center"/>  
  
</RelativeLayout>

MainActivity.java

*package* com.example.slipno1;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*import* android.app.DatePickerDialog;  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.Button;  
*import* android.widget.DatePicker;  
*import* android.widget.TextView;  
*import* java.util.Calendar;  
  
*public class* MainActivity *extends* AppCompatActivity {  
 *private* Button button;  
 *private* TextView textView;  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 button = findViewById(R.id.*button*);  
 textView = findViewById(R.id.*textView*);  
  
 button.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View v) {  
 DatePickerDialog datePickerDialog = *new* DatePickerDialog(MainActivity.*this*,  
 *new* DatePickerDialog.OnDateSetListener() {  
 @Override  
 *public void* onDateSet(DatePicker view, *int* year, *int* month, *int* dayOfMonth) {  
 String date = dayOfMonth + "/" + (month + 1) + "/" + year;  
 textView.setText(date);  
 }  
 }, Calendar.*getInstance*().get(Calendar.***YEAR***), Calendar.*getInstance*().get(Calendar.***MONTH***), Calendar.*getInstance*().get(Calendar.***DAY\_OF\_MONTH***));  
 datePickerDialog.show();  
 }  
 });  
 }  
}