```
package com.example.courseactivity1

import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.tooling.preview.Preview

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            Text("Hello world!")
        }
    }
}

@Composable
fun MessageCard(name: String) {
    Text(text = "Hello $name!")
}

@Preview
@Composable
fun PreviewMessageCard() {
    MessageCard("Android")
}
```

(handwritten annotations)

define the annotations

Annotation

Composable Functions

Android Studio uses it to show the UI to the developers to enable better design.

Activity launched — User has done this / some other app has done this.

onCreate()

onStart()

onResume()

Activity running

Another activity comes into the foreground

User returns to the activity

App process killed

User navigates to the activity

Apps with higher priority need memory

onPause() — Phone call

The activity is no longer visible

onRestart()

User navigates to the activity — Accept button

onStop()

The activity is finishing or being destroyed by the system

onDestroy()

Activity shut down