

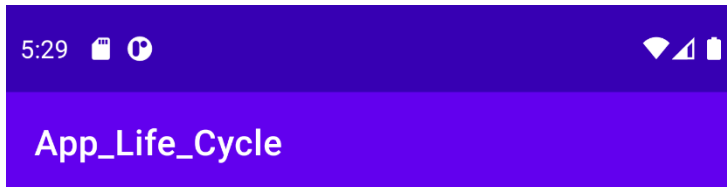
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Reg.No : 2047120

Course : MCS 272 Mobile Application (App-Cycle)

Output:

1. Welcome_App Created



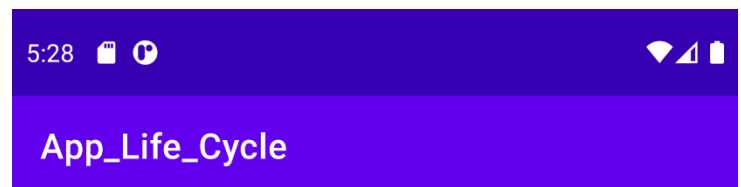
Fortune Cookie

Welcome

START

Welcome_Activity Created

2. Welcome_App Started



Fortune Cookie

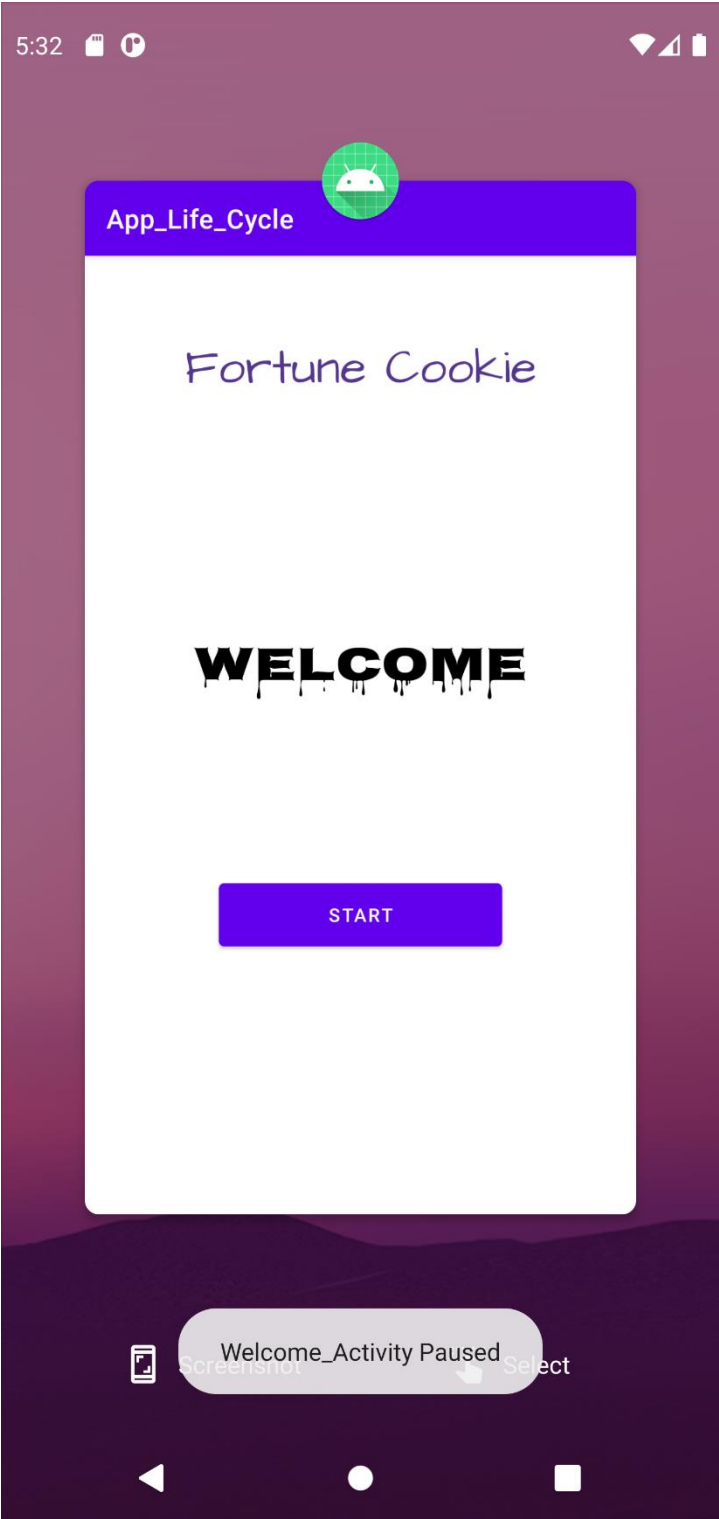
WELCOME

START

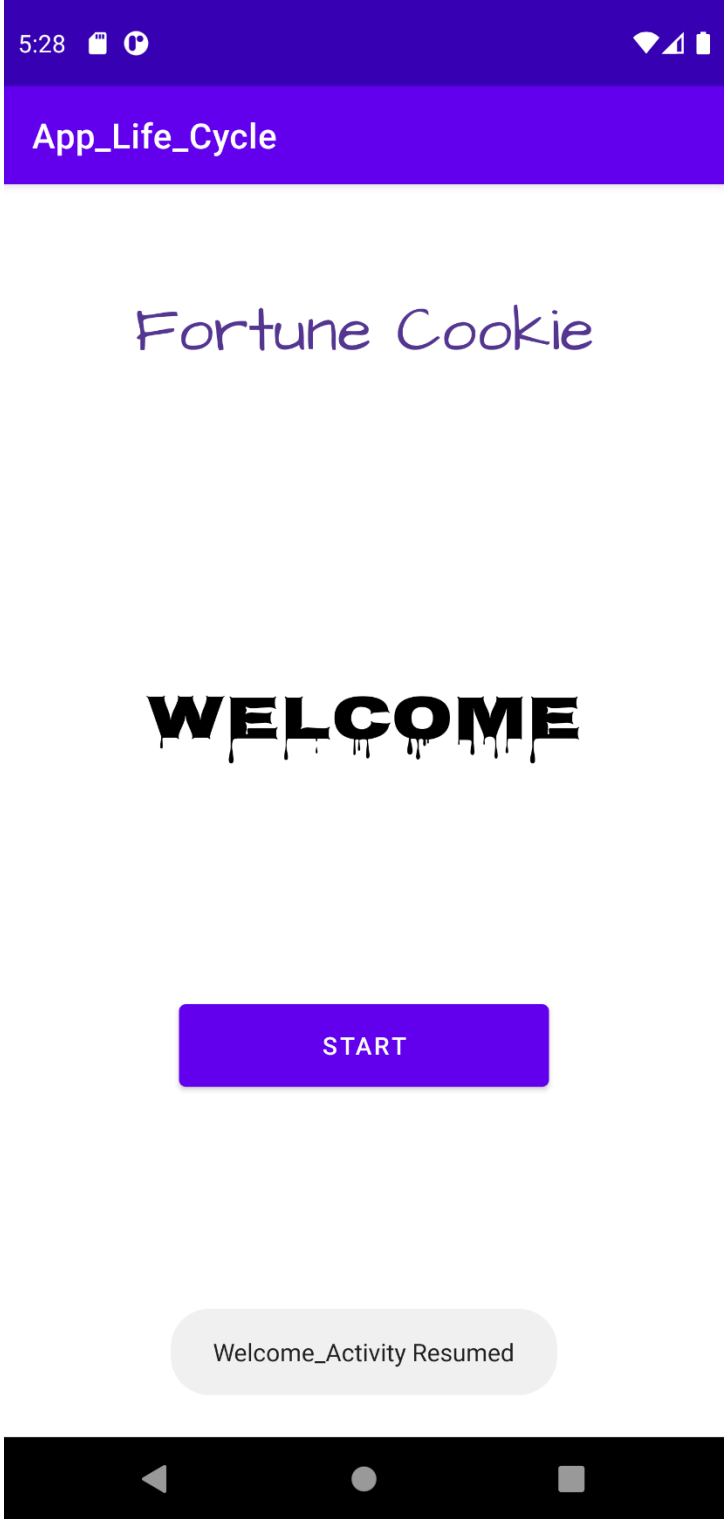
Welcome_Activity Started

Note : Activity 2 welcome screen displays avatar of some students from 2 mcs. Clicking on a specific avatar switches to activity 3 displaying respective avatars details.

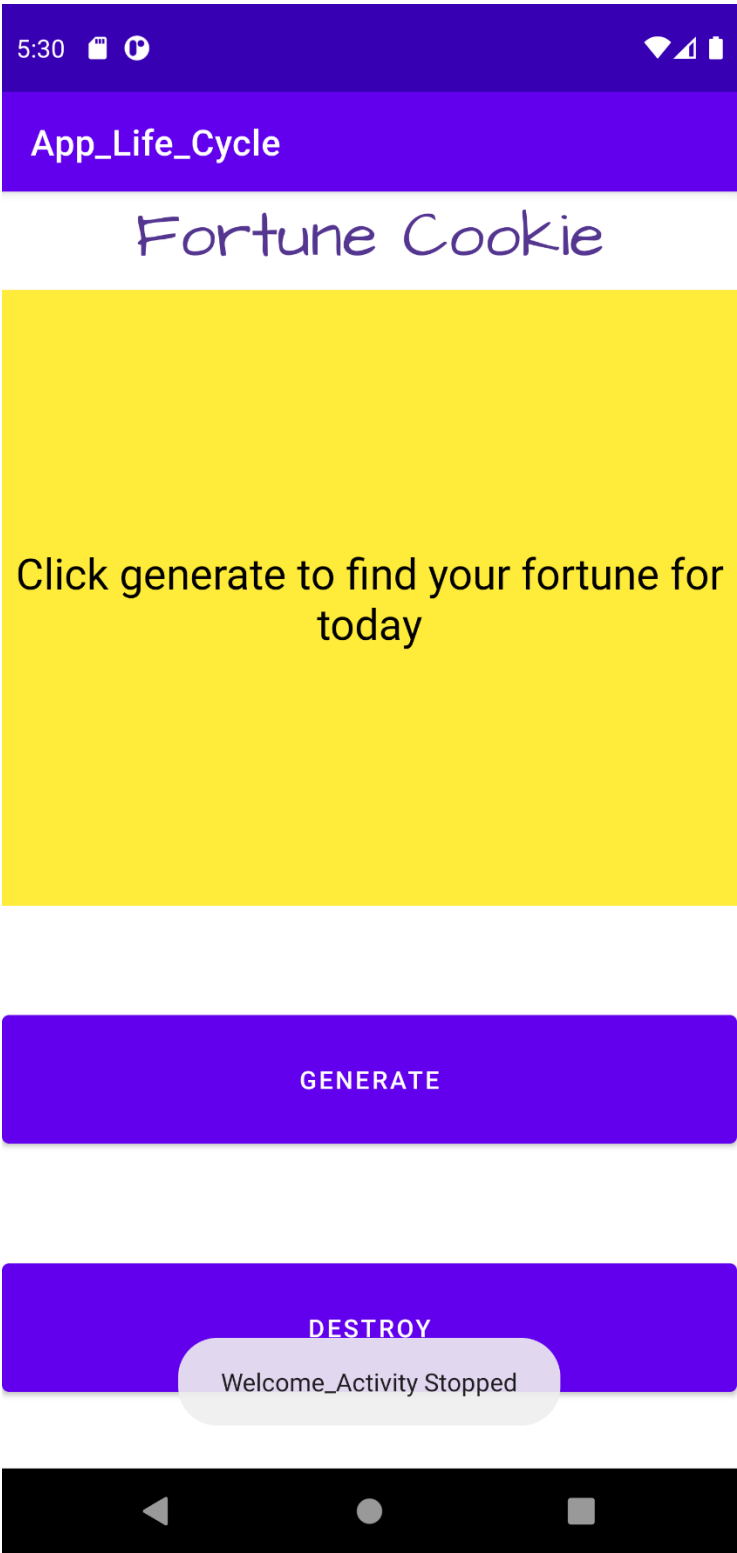
3.Welcome_App Paused



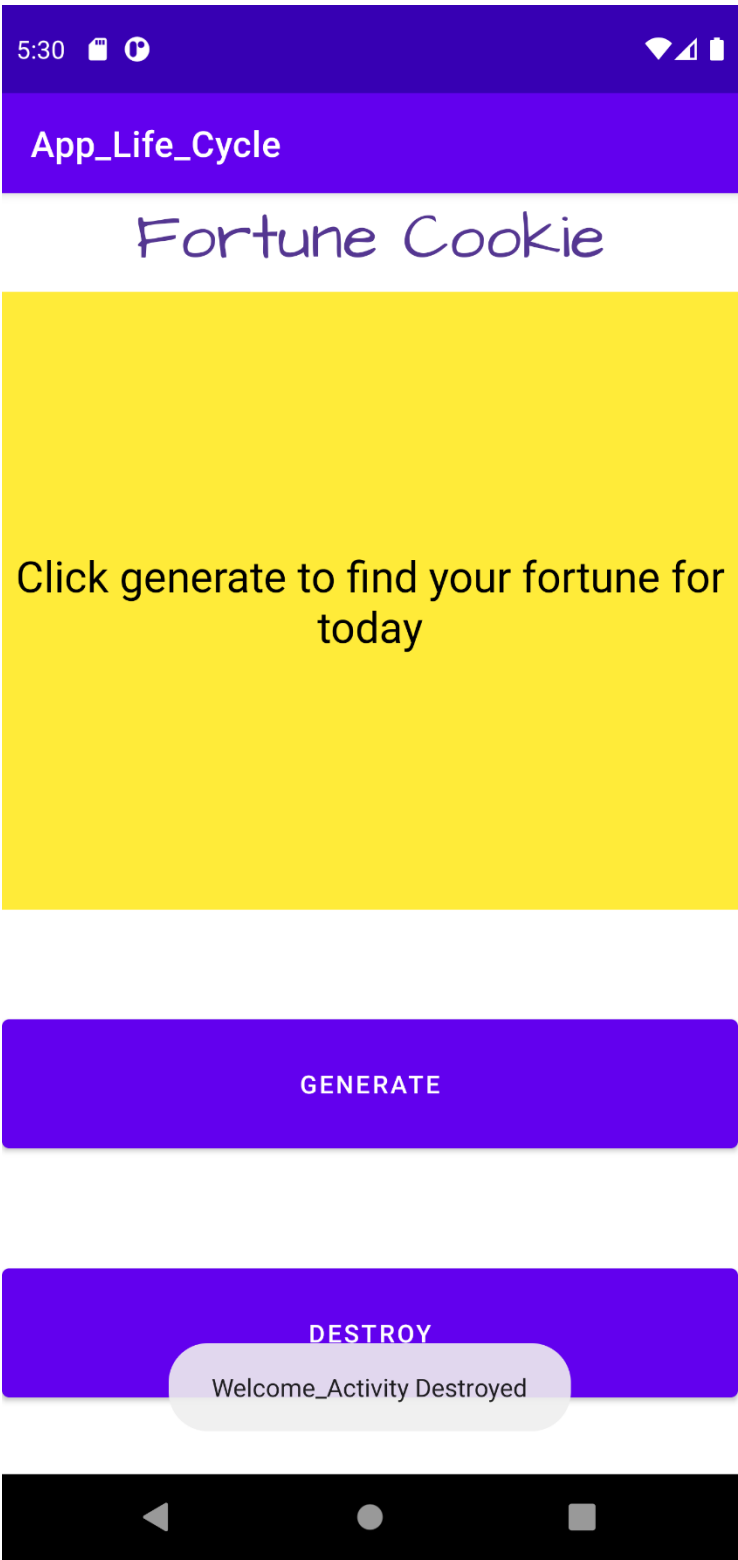
4. Welcome_App Started



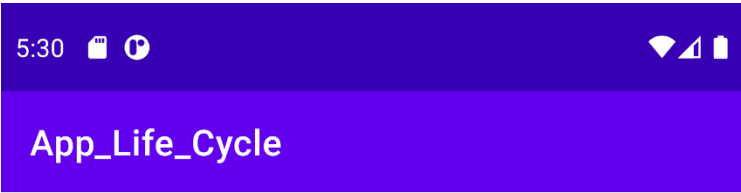
5.Welcome_App Stopped



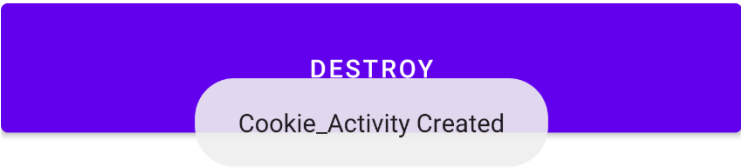
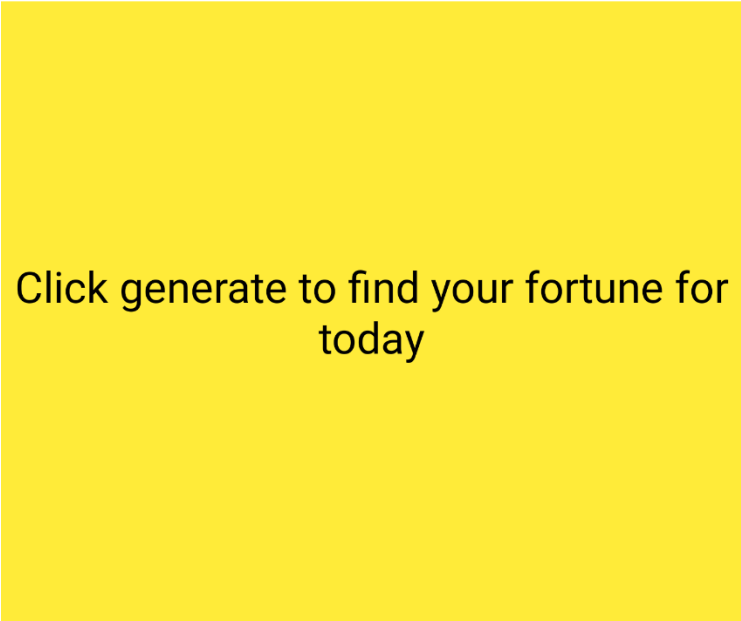
6. Welcome_App Destroyed



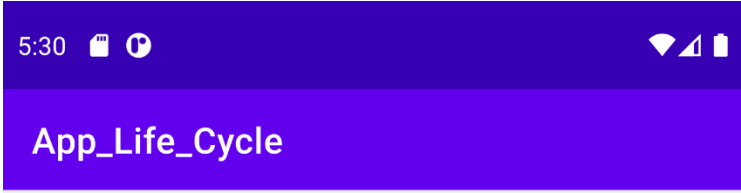
7.Cookie_App Created



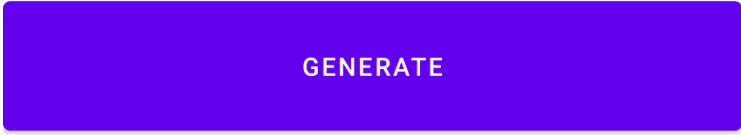
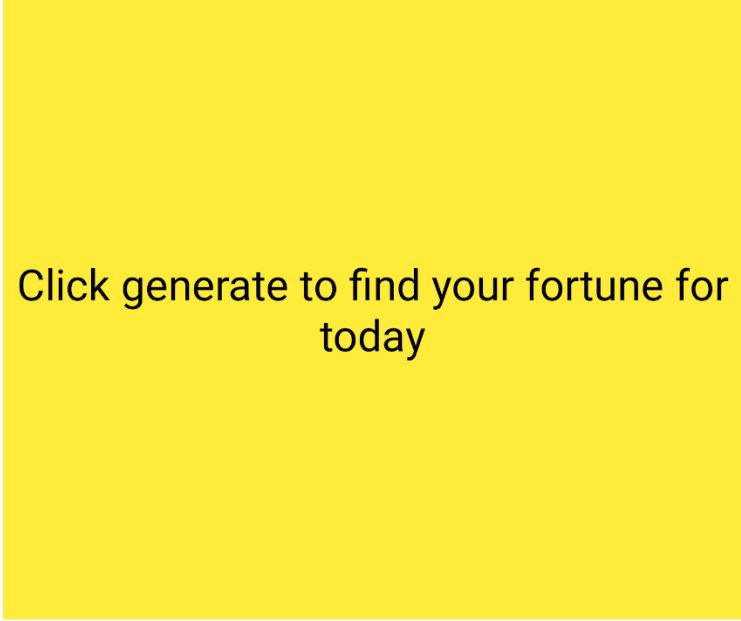
Fortune Cookie



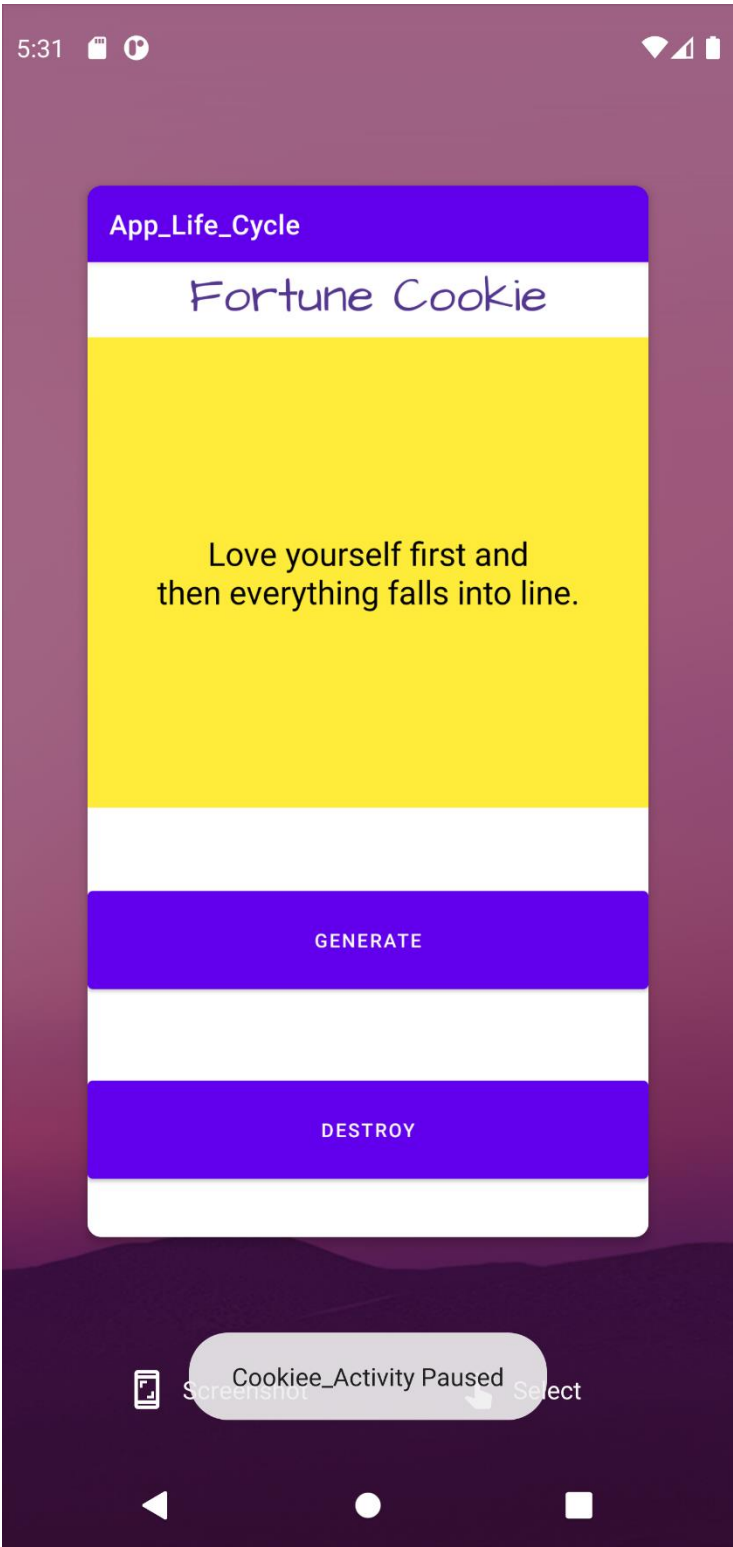
8. Cookie_App Started



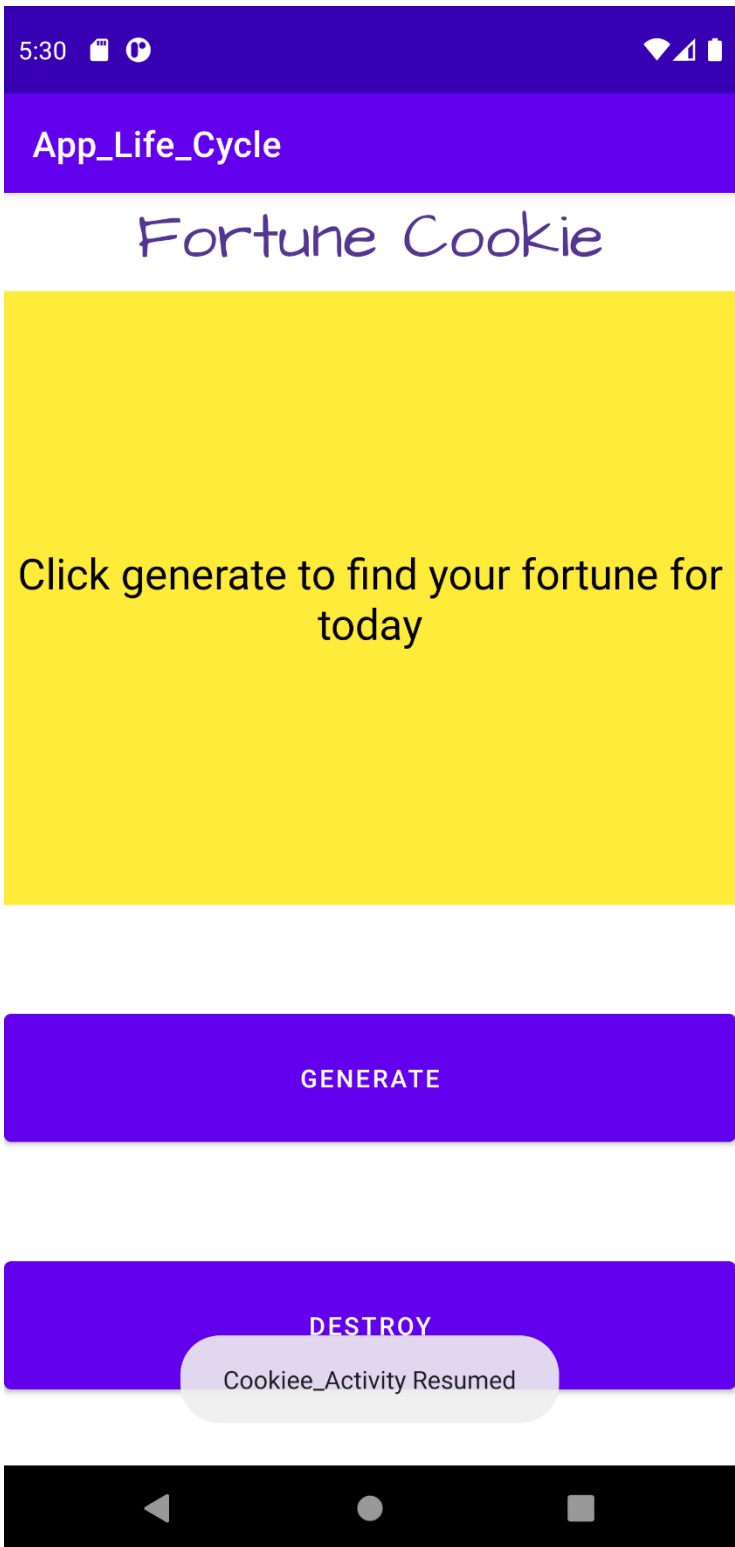
Fortune Cookie



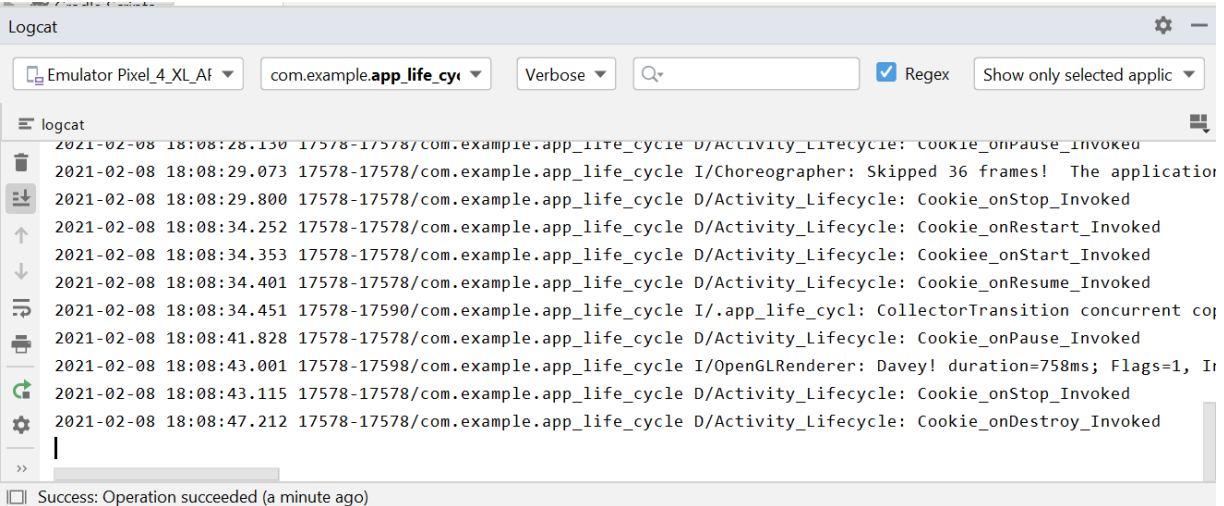
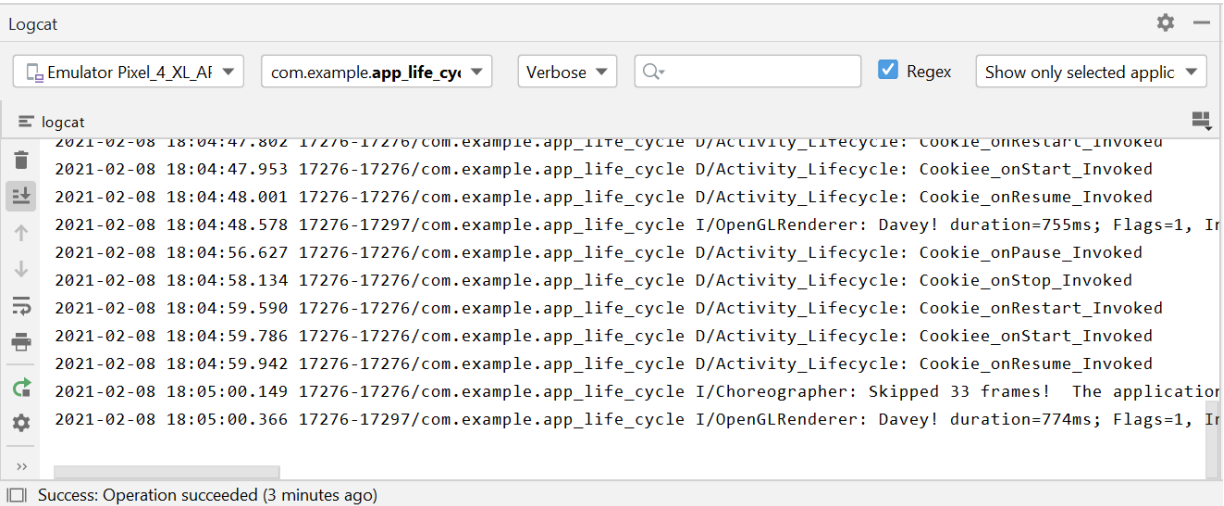
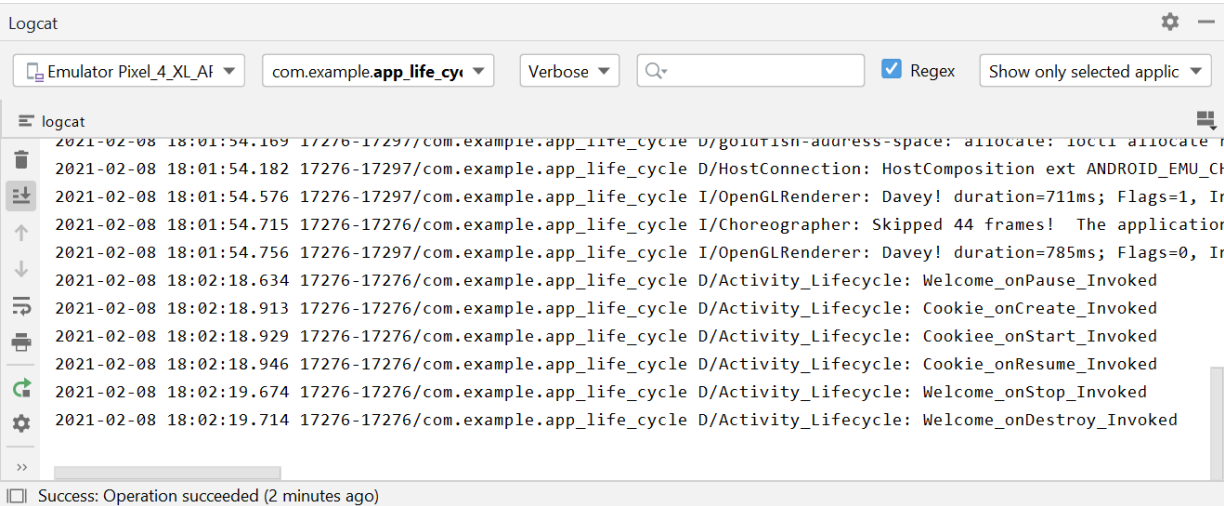
9.Cookie_App Paused



10. Cookie_App Resumed



Log-Cat



The code used in the Main Activity, XML layout is attached below for reference.

```

1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:
  android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     tools:context=".MainActivity">
8
9     <LinearLayout
10         android:layout_width="match_parent"
11         android:layout_height="match_parent"
12         android:orientation="vertical"
13         app:layout_constraintBottom_toBottomOf="parent"
14         app:layout_constraintEnd_toEndOf="parent"
15         app:layout_constraintHorizontal_bias="0.0"
16         app:layout_constraintStart_toStartOf="parent"
17         app:layout_constraintTop_toTopOf="parent"
18         app:layout_constraintVertical_bias="0.0">
19
20         <TextView
21             android:id="@+id/textView3"
22             android:layout_width="match_parent"
23             android:layout_height="169dp"
24             android:background="#FFFFFF"
25             android:fontFamily="@font/architects_daughter"
26             android:gravity="center"
27             android:text="Fortune Cookie"
28             android:textAlignment="center"
29             android:textColor="#543691"
30             android:textSize="36sp" />
31
32         <TextView
33             android:id="@+id/fort"
34             android:layout_width="match_parent"
35             android:layout_height="279dp"
36             android:background="#FFFFFF"
37             android:fontFamily="@font/nosifer"
38             android:gravity="center"
39             android:text="Welcome"
40             android:textAlignment="center"
41             android:textColor="#000000"
42             android:textSize="36sp" />
43
44         <Button
45             android:id="@+id/button"

```

```
46         android:layout_width="match_parent"
47         android:layout_height="87dp"
48         android:insetLeft="100dp"
49         android:insetTop="20dp"
50         android:insetRight="100dp"
51         android:insetBottom="20dp"
52         android:onClick="start_button"
53         android:text="Start" />
54
55     </LinearLayout>
56 </androidx.constraintlayout.widget.ConstraintLayout>
```



```
1 package com.example.app_life_cycle;
2
3 import androidx.appcompat.app.AppCompatActivity;
4
5 import android.content.Intent;
6 import android.os.Bundle;
7 import android.util.Log;
8 import android.view.View;
9 import android.widget.Toast;
10
11 public class MainActivity extends AppCompatActivity {
12
13     @Override
14     protected void onCreate(Bundle savedInstanceState) {
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.activity_main);
17         Log.d("Activity_Lifecycle", "
Welcome_onCreate_Invoked");
18         Toast.makeText(MainActivity.this, "Welcome_Activity
Created", Toast.LENGTH_SHORT).show();
19     }
20
21     public void start_button(View v)
22     {
23         Intent i1 = new Intent(getBaseContext(),
MainActivity2.class);
24         startActivity(i1);
25         finish();
26     }
27
28     @Override
29     protected void onStart()
30     {
31         super.onStart();
32         Log.d("Activity_Lifecycle", "Welcome_onStart_Invoked
");
33         Toast.makeText(MainActivity.this, "Welcome_Activity
Started", Toast.LENGTH_SHORT).show();
34     }
35
36     @Override
37     protected void onResume()
38     {
39         super.onResume();
40         Log.d("Activity_Lifecycle", "
Welcome_onResume_Invoked");
```

```
41         Toast.makeText(MainActivity.this, "Welcome_Activity
Resumed", Toast.LENGTH_SHORT).show();
42     }
43
44     @Override
45     protected void onPause()
46     {
47         super.onPause();
48         Log.d("Activity_Lifecycle", "Welcome_onPause_Invoked
");
49         Toast.makeText(MainActivity.this, "Welcome_Activity
Paused", Toast.LENGTH_SHORT).show();
50     }
51
52     @Override
53     protected void onStop()
54     {
55         super.onStop();
56         Log.d("Activity_Lifecycle", "Welcome_onStop_Invoked"
);
57         Toast.makeText(MainActivity.this, "Welcome_Activity
Stopped", Toast.LENGTH_SHORT).show();
58     }
59
60     @Override
61     protected void onRestart()
62     {
63         super.onRestart();
64         Log.d("Activity_Lifecycle", "
Welcome_onRestart_Invoked");
65         Toast.makeText(MainActivity.this, "Welcome_Activity
Restarted", Toast.LENGTH_SHORT).show();
66     }
67
68     @Override
69     protected void onDestroy()
70     {
71         super.onDestroy();
72         Log.d("Activity_Lifecycle", "
Welcome_onDestroy_Invoked");
73         Toast.makeText(MainActivity.this, "Welcome_Activity
Destroyed", Toast.LENGTH_SHORT).show();
74     }
75 }
```

```

1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:
  android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     tools:context=".MainActivity2">
8
9     <LinearLayout
10         android:layout_width="match_parent"
11         android:layout_height="match_parent"
12         android:orientation="vertical"
13         app:layout_constraintBottom_toBottomOf="parent"
14         app:layout_constraintEnd_toEndOf="parent"
15         app:layout_constraintHorizontal_bias="0.0"
16         app:layout_constraintStart_toStartOf="parent"
17         app:layout_constraintTop_toTopOf="parent"
18         app:layout_constraintVertical_bias="0.0">
19
20         <TextView
21             android:id="@+id/textView3"
22             android:layout_width="match_parent"
23             android:layout_height="55dp"
24             android:background="#FFFFFF"
25             android:fontFamily="@font/architects_daughter"
26             android:text="Fortune Cookie"
27             android:textAlignment="center"
28             android:textColor="#543691"
29             android:textSize="36sp" />
30
31         <TextView
32             android:id="@+id/fort"
33             android:layout_width="match_parent"
34             android:layout_height="345dp"
35             android:background="#FFEB39"
36             android:gravity="center"
37             android:text="Click generate to find your
fortune for today"
38             android:textAlignment="center"
39             android:textColor="#000000"
40             android:textSize="24sp" />
41
42         <TextView
43             android:layout_width="match_parent"
44             android:layout_height="55dp" />

```

```
45
46     <Button
47         android:id="@+id/generate"
48         android:layout_width="match_parent"
49         android:layout_height="84dp"
50         android:onClick="generate"
51         android:text="Generate" />
52
53     <TextView
54         android:id="@+id/textView6"
55         android:layout_width="match_parent"
56         android:layout_height="55dp" />
57
58     <Button
59         android:id="@+id/destroy"
60         android:layout_width="match_parent"
61         android:layout_height="84dp"
62         android:onClick="destroy"
63         android:text="Destroy" />
64
65 </LinearLayout>
66 </androidx.constraintlayout.widget.ConstraintLayout>
```

```
1 package com.example.app_life_cycle;
2
3 import androidx.appcompat.app.AppCompatActivity;
4
5 import android.os.Bundle;
6 import android.util.Log;
7 import android.view.View;
8 import android.widget.TextView;
9 import android.widget.Toast;
10
11 import java.util.Random;
12
13 public class MainActivity2 extends AppCompatActivity {
14
15     private String messages[] = {
16         "Love is flower-like.\n" +
17         "Friendship is like a sheltering tree.",
18         "You are loved.",
19
20         "I may not be where I want to be,\n" +
21         "but I'm thankful for not being\n" +
22         "where I was.",
23
24         "There are things in life that you can't\n" +
25         "control, and aren't supposed to.",
26         "I'd never lived before your love.",
27
28         "With you,\n" +
29         "I am home.",
30
31         "You make it look easy.\n" +
32         "The fact is it's really\n" +
33         "hard and you do it anyway.",
34
35         "Distractions will look like\n" +
36         "opportunities when you don't\n" +
37         "know where you are going.",
38
39         "Two things you will\n" +
40         "never have to chase:\n" +
41         "True friends and true love.",
42
43         "God will never give you\n" +
44         "anything you can't handle,\n" +
45         "so don't stress.",
46
```

```

47         "Some things have to be\n" +
48             "believed to be seen.",
49
50         "Believe something and the\n" +
51             "universe is on its way to\n" +
52             "being changed.",
53
54         "Our words have power,\n" +
55             "but our actions shape our lives.",
56
57         "Love yourself first and\n" +
58             "then everything falls into line.",
59
60         "Authenticity is the daily\n" +
61             "practice of letting go of who\n" +
62             "we think we're supposed to be\n" +
63             "and embracing who we are.",
64
65         "The only impossible journey\n" +
66             "is the one you never begin.",
67
68         "Adjust, chill out, and be happy.",
69
70         "Today you are you! That is truer\n" +
71             "than true! There is no one alive\n" +
72             "who is you-er than you!"
73     };
74     Random rand = new Random();
75     Boolean start = true;
76     private TextView main_disp;
77
78     @Override
79     protected void onCreate(Bundle savedInstanceState) {
80         super.onCreate(savedInstanceState);
81         setContentView(R.layout.activity_main2);
82         main_disp = (TextView) findViewById(R.id.fort);
83         Log.d("Activity_Lifecycle", "Cookie_onCreate_Invoked
84 ");
85         Toast.makeText(MainActivity2.this, "Cookie_Activity
86 Created", Toast.LENGTH_SHORT).show();
87     }
88
89     public void generate(View v)
90     {
91         int rand_int1 = rand.nextInt(15);
92         main_disp.setText(messages[rand_int1]);

```

```

91     }
92
93     public void destroy(View v)
94     {
95         finish();
96         System.exit(0);
97     }
98     @Override
99     protected void onStart()
100    {
101        super.onStart();
102        Log.d("Activity_Lifecycle", "
Cookiee_onStart_Invoked");
103        Toast.makeText(MainActivity2.this, "
Cookie_Activity Started",Toast.LENGTH_SHORT).show();
104    }
105
106    @Override
107    protected void onResume()
108    {
109        super.onResume();
110        Log.d("Activity_Lifecycle", "
Cookie_onResume_Invoked");
111        Toast.makeText(MainActivity2.this, "
Cookiee_Activity Resumed",Toast.LENGTH_SHORT).show();
112    }
113
114    @Override
115    protected void onPause()
116    {
117        super.onPause();
118        Log.d("Activity_Lifecycle", "Cookie_onPause_Invoked
");
119        Toast.makeText(MainActivity2.this, "
Cookiee_Activity Paused",Toast.LENGTH_SHORT).show();
120    }
121
122    @Override
123    protected void onStop()
124    {
125        super.onStop();
126        Log.d("Activity_Lifecycle", "Cookie_onStop_Invoked"
);
127        Toast.makeText(MainActivity2.this, "
Cookie_Activity Stopped",Toast.LENGTH_SHORT).show();
128    }

```

```
129
130     @Override
131     protected void onRestart()
132     {
133         super.onRestart();
134         Log.d("Activity_Lifecycle", "
Cookie_onRestart_Invoked");
135         Toast.makeText(MainActivity2.this, "
Cookie_Activity Restarted",Toast.LENGTH_SHORT).show();
136     }
137
138     @Override
139     protected void onDestroy()
140     {
141         super.onDestroy();
142         Log.d("Activity_Lifecycle", "
Cookie_onDestroy_Invoked");
143         Toast.makeText(MainActivity2.this, "
Cookie_Activity Destroyed",Toast.LENGTH_SHORT).show();
144     }
145 }
146
```