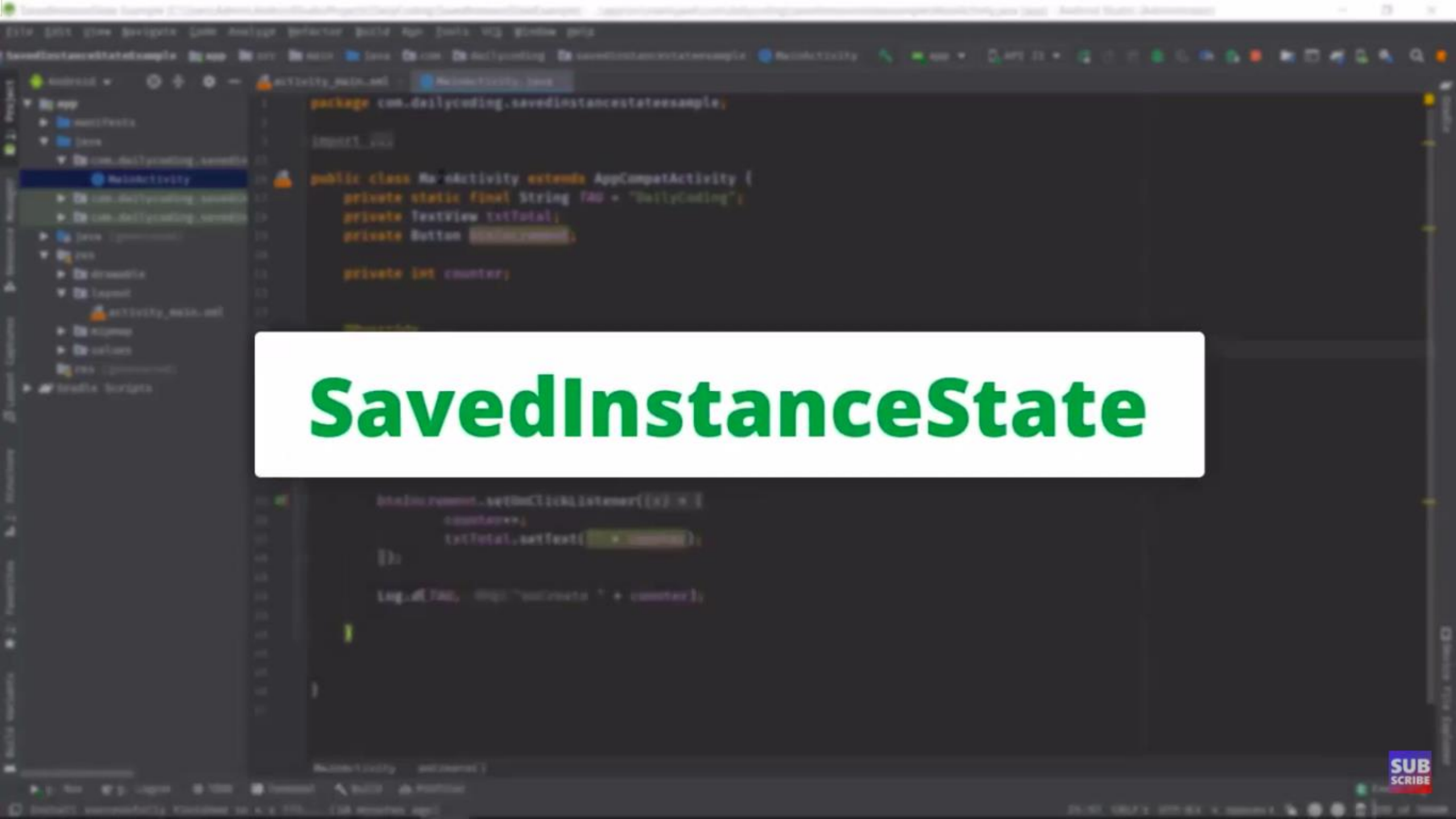
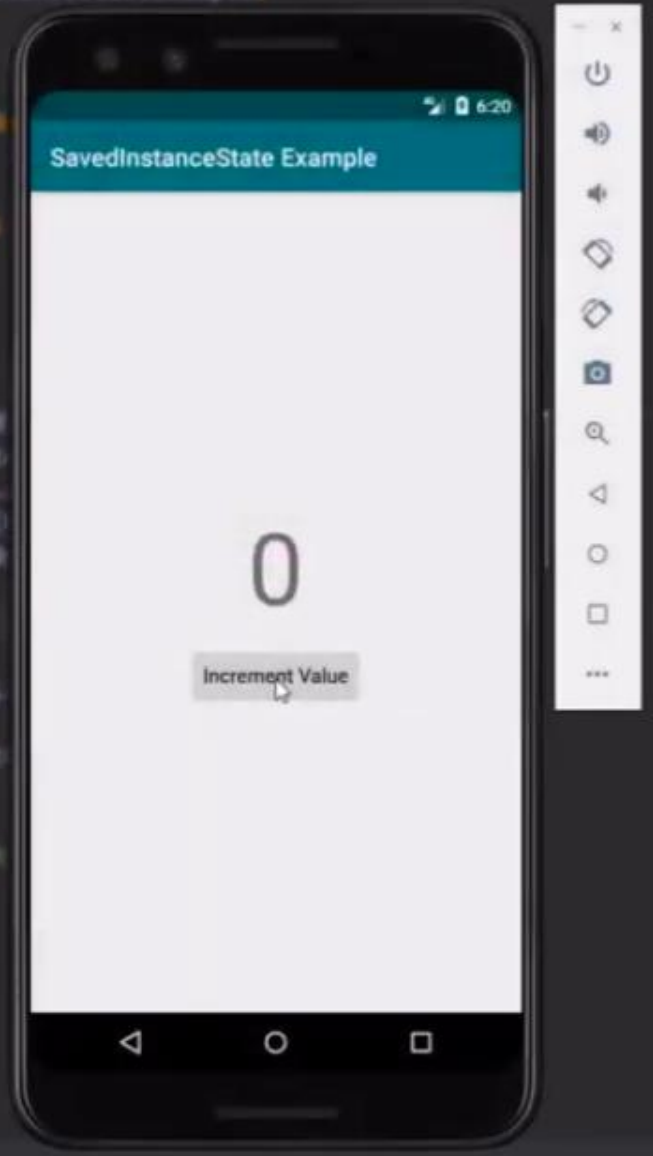
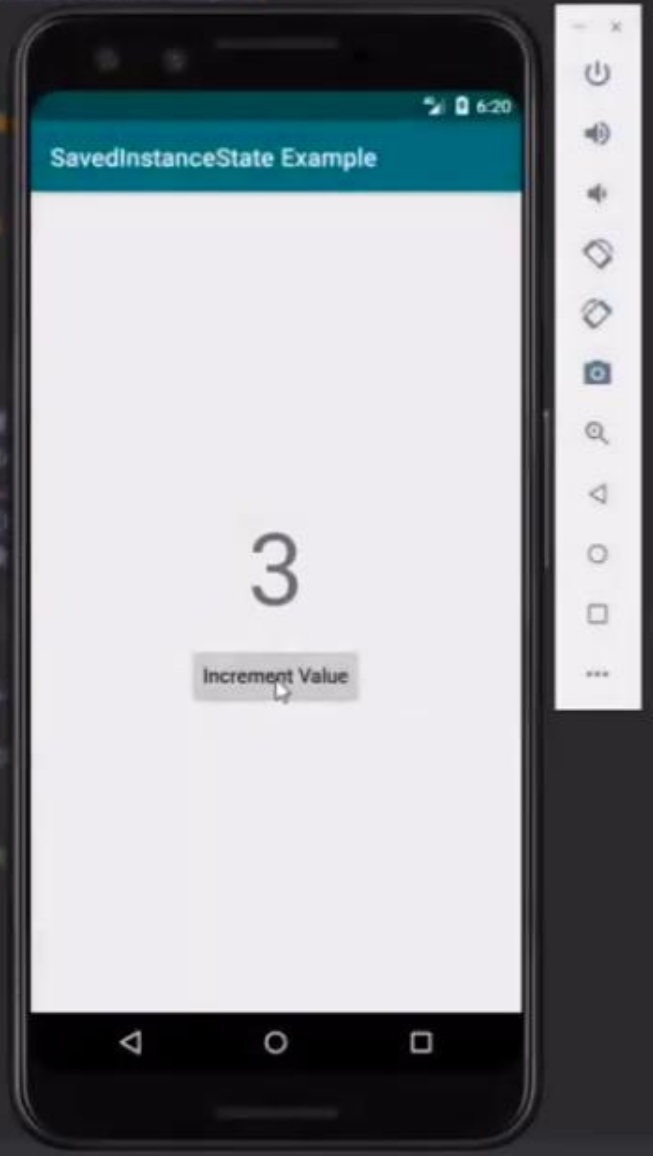
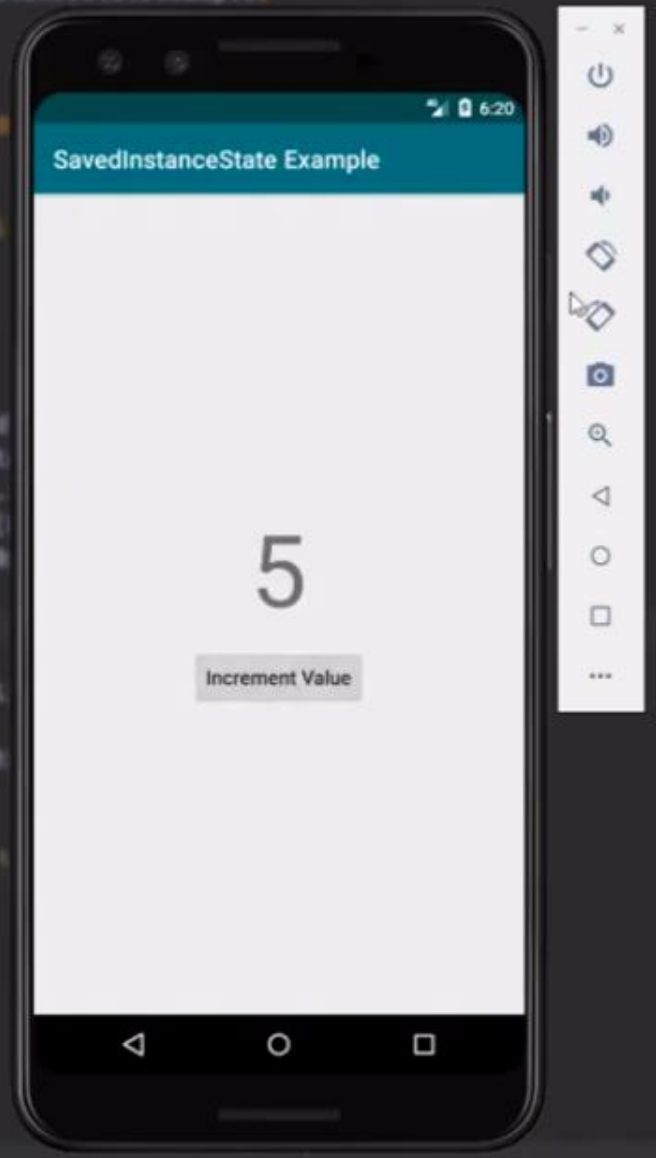
OnSaveInstanceState

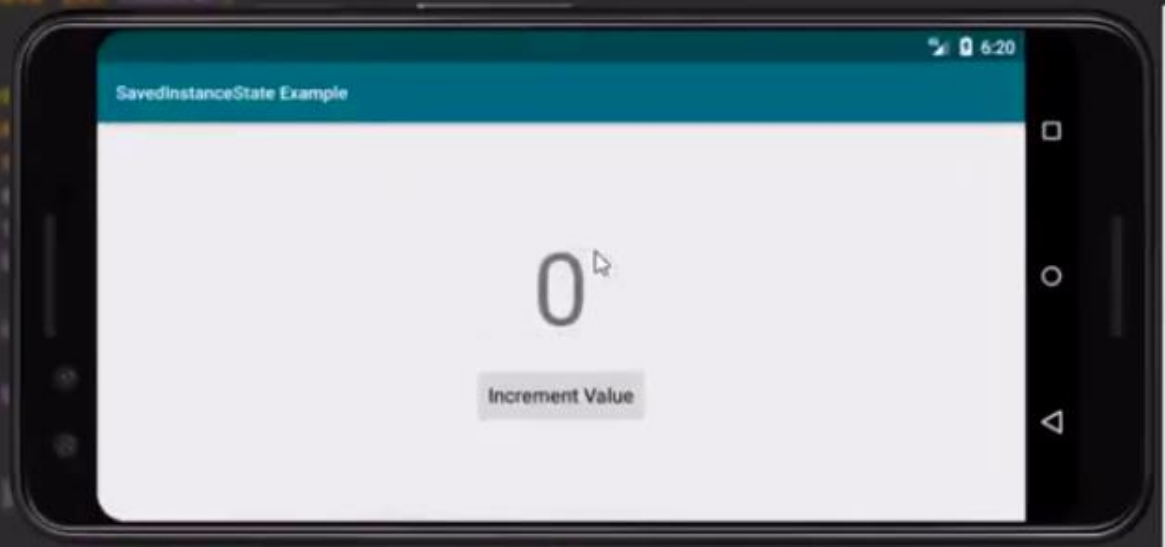
Dhanya N.M.


SavedInstanceState


6:20
SavedInstanceState Example
0
Increment Value

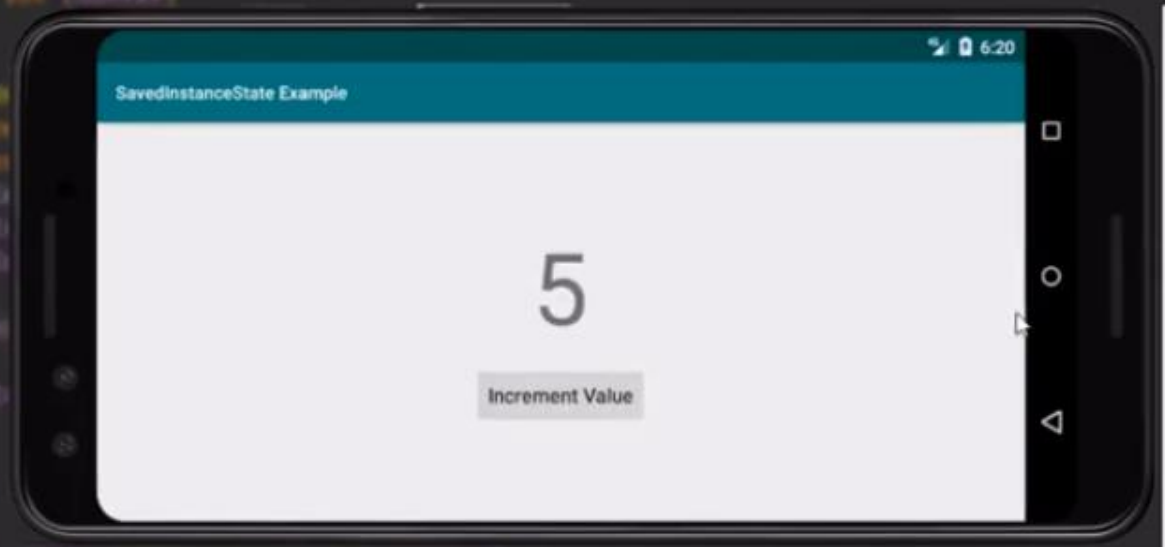

6:20
SavedInstanceState Example
3
Increment Value


6:20
SavedInstanceState Example
5
Increment Value


6:20
SavedInstanceState Example
0
Increment Value

Activity Destroy

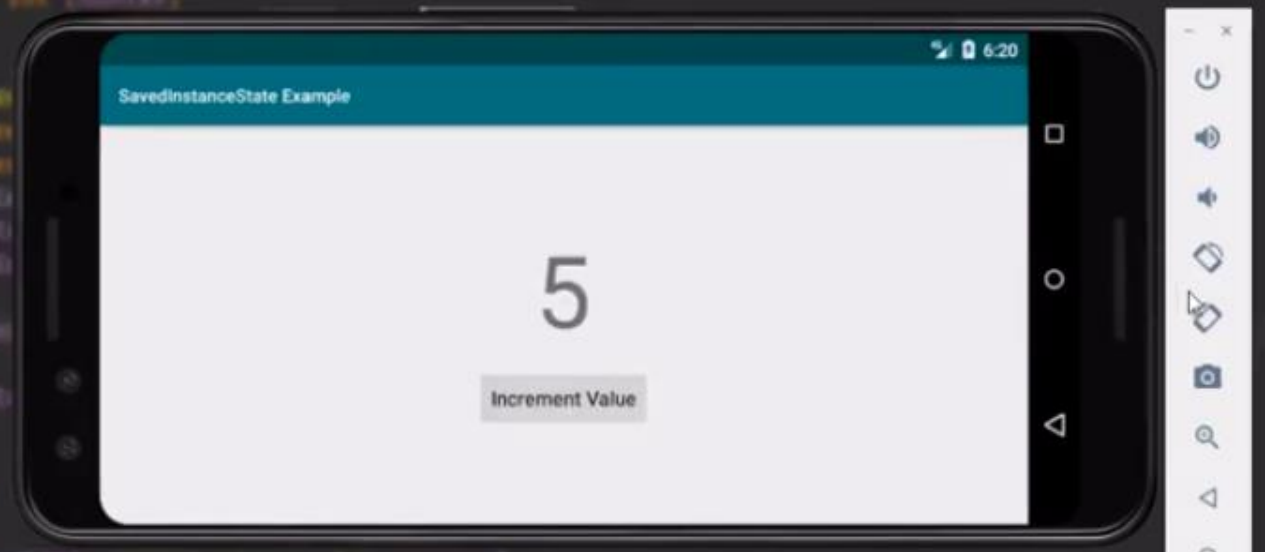
e()



SUB
SCRIBE

Before *Activity* **Destroy**

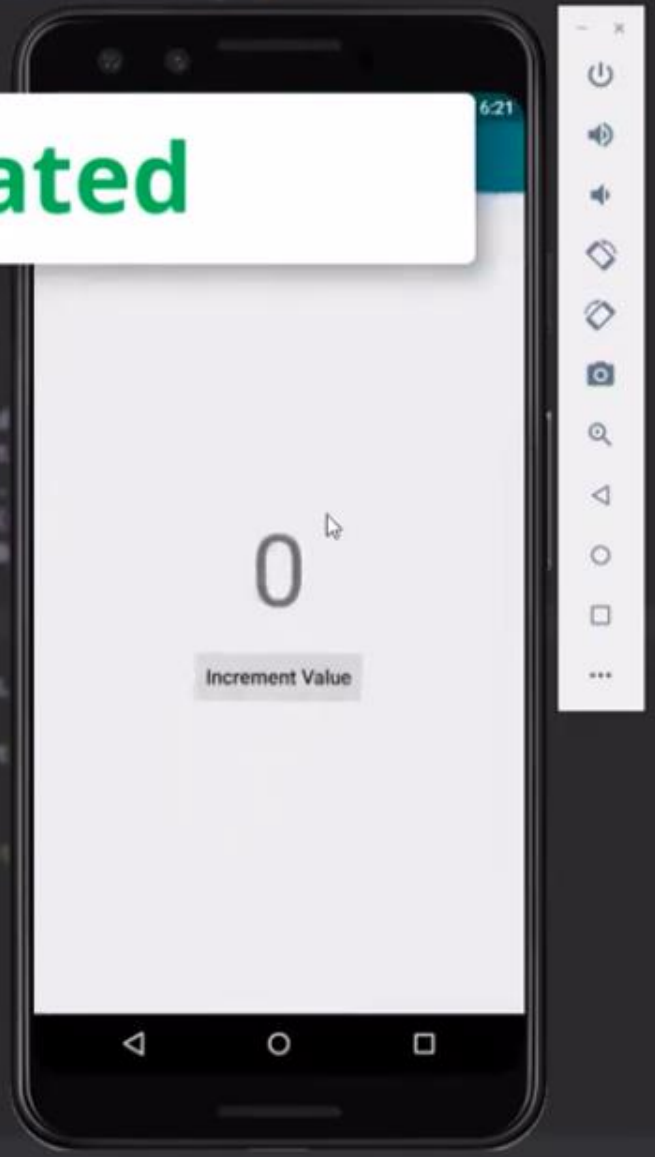
- onPause()
- onStop()
- onDestroy()



When *Activity* **Recreated**

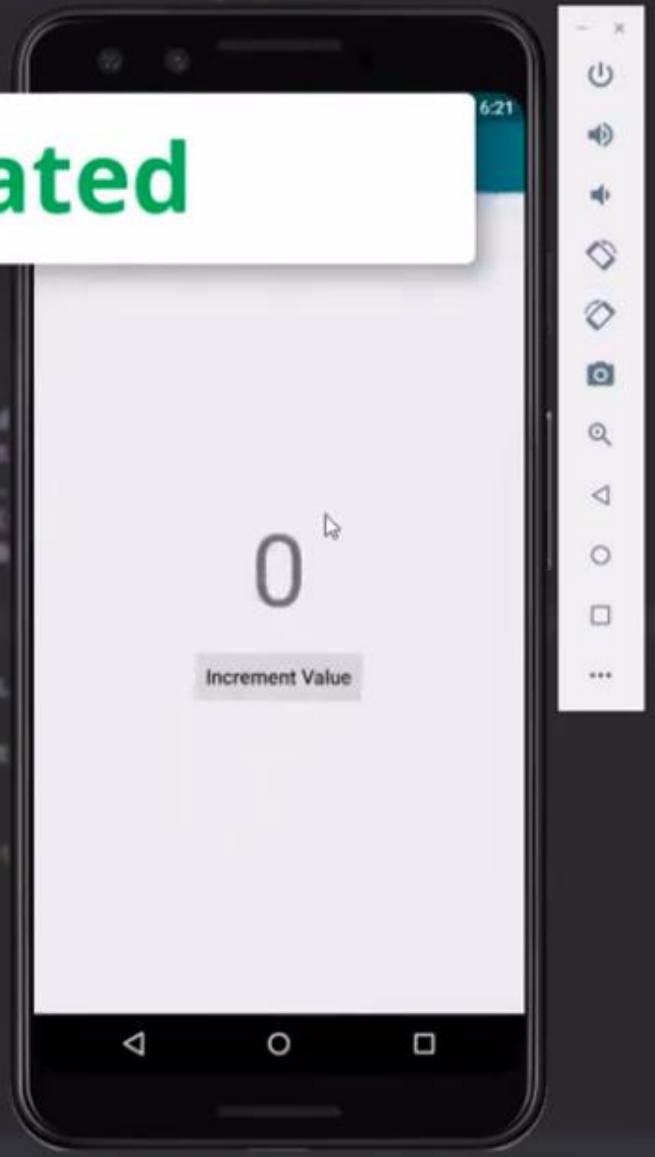
- *onCreate()*
- *onStart()*

onResume



When *Activity* **Recreated**

- *onCreate()*
- *onStart()*
- *onResume*



SavedInstanceState Example [C:\Users\Admin\AndroidStudioProjects\DailyCoding\SavedInstanceStateExample] - ...\app\src\main\java\com\dailycoding\savedinstancestateexample\MainActivity.java [app] - Android Studio (Administrator)

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

SavedInstanceStateExample > app > src > main > java > com > dailycoding > savedinstancestateexample > MainActivity

app | API 21

Android

- app
  - manifests
  - java
    - com.dailycoding.savedin
      - MainActivity
    - com.dailycoding.savedin
    - com.dailycoding.savedin
  - java (generated)
  - res
    - drawable
    - layout
      - activity_main.xml
    - mipmap
    - values
  - res (generated)
- Gradle Scripts

activity_main.xml | MainActivity.java

```
1  package com.dailycoding.savedinstancestateexample;
2
3  import ...
15
16 public class MainActivity extends AppCompatActivity {
17     private static final String TAG = "DailyCoding";
18     private TextView txtTotal;
19     private Button btnIncrement;
20
21     private int counter;
22
23
24     @Override
25     protected void onCreate(Bundle savedInstanceState) {
26         super.onCreate(savedInstanceState);
27         setContentView(R.layout.activity_main);
28         txtTotal = findViewById(R.id.txt_total);
29         btnIncrement = findViewById(R.id.btn_increment);
30
31         counter = 0;
32
33         btnIncrement.setOnClickListener((v) -> {
36             counter++;
37             txtTotal.setText("" + counter);
38         });
40
41
42     }
43
44
45 }
46
```

MainActivity > onCreate()

4: Run | 6: Logcat | TODO | Terminal | Build | Profiler

Install successfully finished in 4 s 773... (12 minutes ago)

41:9 CRLF: UTF-8: 4 spaces:

SUB SCRIBE

activity_main.xml | MainActivity.java

```java
package com.dailycoding.savedinstancestateexample;

import ...

public class MainActivity extends AppCompatActivity {
    private static final String TAG = "DailyCoding";
    private TextView txtTotal;
    private Button btnIncrement;

    private int counter;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        txtTotal = findViewById(R.id.txt_total);
        btnIncrement = findViewById(R.id.btn_increment);

        counter = 0;

        btnIncrement.setOnClickListener((v) -> {
                counter++;
                txtTotal.setText("" + counter);
        });


    }
```

Projec

SUB SCRIBE

SavedInstanceState Example [C:\Users\Admin\AndroidStudioProjects\DailyCoding\SavedInstanceStateExample] - ...\app\src\main\java\com\dailycoding\savedinstancestateexample\MainActivity.java [app] - Android Studio (Administrator)

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

SavedInstanceStateExample > app > src > main > java > com > dailycoding > savedinstancestateexample > MainActivity

activity_main.xml | MainActivity.java

```
import ...

public class MainActivity extends AppCompatActivity {
    private static final String TAG = "DailyCoding";
    private TextView txtTotal;
    private Button btnIncrement;

    private int counter;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        txtTotal = findViewById(R.id.txt_total);
        btnIncrement = findViewById(R.id.btn_increment);

        counter = 0;

        btnIncrement.setOnClickListener((v) -> {
                counter++;
                txtTotal.setText("" + counter);
        });

    }


}
```

onSaveInstanceState(Bundle outState)

onRestoreInstanceState(Bundle outState)

MainActivity

Run | Logcat | TODO | Terminal | Build | Profiler

Install successfully finished in 4 s 773... (13 minutes ago)

43:5 CRLF: UTF-8: 4 spaces:

```
27          setContentView(R.layout.activity_main);
28          txtTotal = findViewById(R.id.txt_total);
29          btnIncrement = findViewById(R.id.btn_increment);
30
31          counter = 0;
32
33          btnIncrement.setOnClickListener((v) -> {
36                  counter++;
37                  txtTotal.setText("" + counter);
38          });
40
41      }
42
43      onSaved
44      public void onStateNotSaved() {...   FragmentActivity
45  }
46
```

MainActivity

Terminal Build Profiler

4 s 773... (13 minutes ago)

SUB SCRIBE

```
27          setContentView(R.layout.activity_main);
28          txtTotal = findViewById(R.id.txt_total);
29          btnIncrement = findViewById(R.id.btn_increment);
30
31          counter = 0;
32
33          btnIncrement.setOnClickListener((v) -> {
36                  counter++;
37                  txtTotal.setText("" + counter);
38          });
40
41      }
42
43      onSave
44      public void onSaveInstanceState(Bundle o… Activity
45      protected void onSaveInstanceState AppCompatActiv…
46      public void onStateNotSaved() {… FragmentActivity
```

MainActivity

Terminal Build Profiler

4 s 773... (13 minutes ago)

```
27          setContentView(R.layout.activity_main);
28          txtTotal = findViewById(R.id.txt_total);
29          btnIncrement = findViewById(R.id.btn_increment);
30
31          counter = 0;
32
33          btnIncrement.setOnClickListener((v) -> {
36                  counter++;
37                  txtTotal.setText("" + counter);
38          });
40
41      }
42
43      onSave
44      public void onSaveInstanceState(Bundle o… Activity
45      protected void onSaveInstanceState(Bundle outState) {...}  AppCompatActivity
46      public void onStateNotSaved() {… FragmentActivity π
```

MainActivity

Terminal Build Profiler

4 s 773... (14 minutes ago)

SUB SCRIBE

```
26          super.onCreate(savedInstanceState);
27          setContentView(R.layout.activity_main);
28          txtTotal = findViewById(R.id.txt_total);
29          btnIncrement = findViewById(R.id.btn_increment);
30
31          counter = 0;
32
33          btnIncrement.setOnClickListener((v) -> {
36                  counter++;
37                  txtTotal.setText("" + counter);
38          });
40
41      }
42
43      @Override
44      protected void onSaveInstanceState(Bundle outState) {
45          super.onSaveInstanceState(outState);
46      }
47  }
48
```

MainActivity › onSaveInstanceState()

Terminal Build Profiler

4 s 773... (14 minutes ago)

SUB SCRIBE

```
26          super.onCreate(savedInstanceState);
27          setContentView(R.layout.activity_main);
28          txtTotal = findViewById(R.id.txt_total);
29          btnIncrement = findViewById(R.id.btn_increment);
30
31          counter = 0;
32
33          btnIncrement.setOnClickListener((v) -> {
36                  counter++;
37                  txtTotal.setText("" + counter);
38          });
40
41      }
42
43      @Override
44      protected void onSaveInstanceState(Bundle outState) {
45          super.onSaveInstanceState(outState);
46          outState.putInt();
47      }
48  }
49
```

MainActivity › onSaveInstanceState()

Terminal Build Profiler

in 'android.os.BaseBundle' cannot be applied to '(.

```
26          super.onCreate(savedInstanceState);
27          setContentView(R.layout.activity_main);
28          txtTotal = findViewById(R.id.txt_total);
29          btnIncrement = findViewById(R.id.btn_increment);
30
31          counter = 0;
32
33          btnIncrement.setOnClickListener((v) -> {
36                  counter++;
37                  txtTotal.setText("" + counter);
38          });
40
41      }
42
43      @Override
44      protected void onSaveInstanc
45          super.onSaveInstanceState(outState);
46          outState.putInt("key_counter", counter);
47      }
48  }
49
```

@Nullable String key, **int value**

MainActivity › onSaveInstanceState()

Terminal Build Profiler

4 s 773... (16 minutes ago)

SUB SCRIBE

```
29          btnIncrement = findViewById(R.id.btn_increment);
30
31          counter = 0;
32
33          btnIncrement.setOnClickListener((v) -> {
36                  counter++;
37                  txtTotal.setText("" + counter);
38          });
40
41      }
42
43      @Override
44      protected void onSaveInstanceState(Bundle outState) {
45          super.onSaveInstanceState(outState);
46          outState.putInt("key_counter", counter);
47      }
48
49      @Override
50      protected void onRestoreInstanceState(@NonNull Bundle savedInstanceState) {
51          super.onRestoreInstanceState(savedInstanceState);
52      }
```

MainActivity › onRestoreInstanceState()

Terminal Build Profiler

4 s 773... (16 minutes ago)

SUB SCRIBE

```
38          });
40
41      }
42
43      @Override
44      protected void onSaveInstanceState(Bundle outState) {
45          super.onSaveInstanceState(outState);
46          outState.putInt("key_counter", counter);
47      }
48
49      @Override
50      protected void onRestoreInstanceState(@NonNull Bundle savedInstanceState) {
51          super.onRestoreInstanceState(savedInstanceState);
52      }
53  }
54
```

MainActivity › onRestoreInstanceState()

Terminal Build Profiler

4 s 773... (16 minutes ago)

SUB SCRIBE

```
38          });
40
41      }
42
43      @Override
44      protected void onSaveInstanceState(Bundle outState) {
45          super.onSaveInstanceState(outState);
46          outState.putInt("key_counter", counter);
47      }
48
49      @Override
50      protected void onRestoreInstanceState(@NonNull Bundle savedInstanceState) {
51          super.onRestoreInstanceState(savedInstanceState);
52          savedInstanceState.getInt()
53      }
54  }
55
```

MainActivity › onRestoreInstanceState()

Terminal Build Profiler

SUB SCRIBE

```
38          });
40
41      }
42
43      @Override
44      protected void onSaveInstanceState(Bundle outState) {
45          super.onSaveInstanceState(outState);
46          outState.putInt("key_counter", counter);
47      }
48
49      @Override
50      protected void onRestoreInstanceState(@NonNull Bundle savedInstanceState) {
51          super.onRestoreInstanceState(savedInstanceState);
52          savedInstanceState.getInt( key: "key_counter",  defaultValue: 0);
53      }
54  }
55
```

MainActivity › onRestoreInstanceState()

Terminal Build Profiler

4 s 773... (17 minutes ago)

SUB SCRIBE

```
38          });
40
41      }
42
43      @Override
44      protected void onSaveInstanceState(Bundle outState) {
45          super.onSaveInstanceState(outState);
46          outState.putInt("key_counter", counter);
47      }
48
49      @Override
50      protected void onRestoreInstanceState(@NonNull Bundle savedInstanceState) {
51          super.onRestoreInstanceState(savedInstanceState);
52          counter = savedInstanceState.getInt( key: "key_counter",  defaultValue: 0);
53
54      }
55  }
56
```

MainActivity › onRestoreInstanceState()

Terminal Build Profiler

4 s 773... (17 minutes ago)

SUB SCRIBE

```
38          });
40
41      }
42
43      @Override
44      protected void onSaveInstanceState(Bundle outState) {
45          super.onSaveInstanceState(outState);
46          outState.putInt("key_counter", counter);
47      }
48
49      @Override
50      protected void onRestore                    vedInstanceState) {
51          super.onRestoreInsta
52          counter = savedInstanceState.getInt(key: "key_counter", defaultValue: 0);
53          txtTotal.setText("" + counter);
54      }
55  }
56
```

CharSequence text
CharSequence text, BufferType type
char[] text, int start, int len
@StringRes int resid
@StringRes int resid, BufferType type

MainActivity › onRestoreInstanceState()

Terminal Build Profiler

4 s 773... (18 minutes ago)

SUB SCRIBE

SavedInstanceState Example [C:\Users\Admin\AndroidStudioProjects\DailyCoding\SavedInstanceStateExample] - ...\app\src\main\java\com\dailycoding\savedinstancestateexample\MainActivity.java [app] - Android Studio (Administrator)

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

SavedInstanceStateExample > app > src > main > java > com > dailycoding > savedinstancestateexample > MainActivity

app | API 21

Android

activity_main.xml | MainActivity.java

- app
  - manifests
  - java
    - com.dailycoding.savedin
      - MainActivity
    - com.dailycoding.savedin
    - com.dailycoding.savedin
  - java (generated)
  - res
    - drawable
    - layout
      - activity_main.xml
    - mipmap
    - values
  - res (generated)
- Gradle Scripts

```
22
23
24      @Override
25      protected void onCreate(Bundle savedInstanceState) {
26          super.onCreate(savedInstanceState);
27          setContentView(R.layout.activity_main);
28          txtTotal = findViewById(R.id.txt_total);
29          btnIncrement = findViewById(R.id.btn_increment);
30
31          counter = 0;
32
33          btnIncrement.setOnClickListener((v) -> {
36                  counter++;
37                  txtTotal.setText("" + counter);
38          });
40
41      }
42
43      @Override
44      protected void onSaveInstanceState(Bundle outState) {
45          super.onSaveInstanceState(outState);
46          outState.putInt("key_counter", counter);
47      }
48
49      @Override
50      protected void onRestoreInstanceState(@NonNull Bundle savedInstanceState) {
51          super.onRestoreInstanceState(savedInstanceState);
52          counter = savedInstanceState.getInt( key: "key_counter",  defaultValue: 0);
53          txtTotal.setText("" + counter);
54      }
55  }
56
```

MainActivity > onRestoreInstanceState()

4: Run | 6: Logcat | TODO | Terminal | Build | Profiler

Install successfully finished in 4 s 773... (19 minutes ago)

53:40 CRLF: UTF-8: 4 spaces:

SUB SCRIBE

SavedInstanceState Example [C:\Users\Admin\AndroidStudioProjects\DailyCoding\SavedInstanceExample] - ...\app\src\main\java\com\dailycoding\savedinstancestateexample\MainActivity.java [app] - Android Studio (Administrator)

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

SavedInstanceStateExample > app > src > main > java > com > dailycoding > savedinstancestateexample > MainActivity

app | API 21

Android

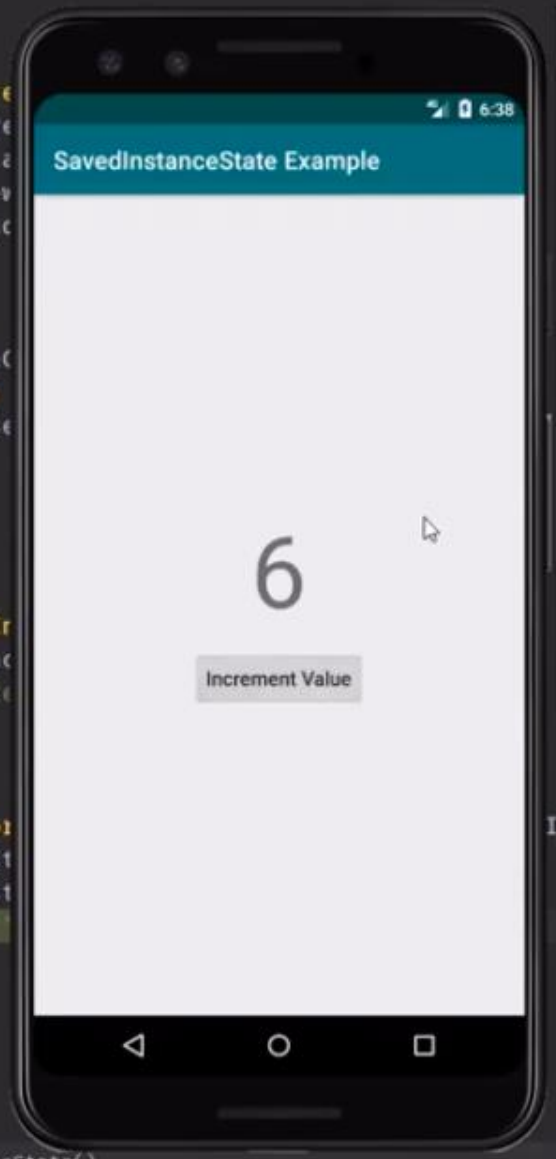
activity_main.xml | MainActivity.java

- app
  - manifests
  - java
    - com.dailycoding.savedin
      - MainActivity
    - com.dailycoding.savedin
    - com.dailycoding.savedin
  - java (generated)
  - res
    - drawable
    - layout
      - activity_main.xml
    - mipmap
    - values
  - res (generated)
- Gradle Scripts

```
22
23
24      @Override
25      protected void onCreate
26          super.onCreate(save
27          setContentView(R.la
28          txtTotal = findVie
29          btnIncrement = finc
30
31          counter = 0;
32
33          btnIncrement.setOn(
36                  counter++;
37                  txtTotal.se
38          });
40
41      }
42
43      @Override
44      protected void onSaveIn
45          super.onSaveInstanc
46          outState.putInt("ke
47      }
48
49      @Override
50      protected void onRestor
51          super.onRestoreInst
52          counter = savedInst
53          txtTotal.setText("
54      }
55  }
56
```

```
InstanceState) {

 defaultValue: 0);
```



Install successfully finished in 3 s 343 ms.

Activity > onRestoreInstanceState()

Run | 6: Logcat | TODO | Terminal | Build | Profiler

Install successfully finished in 3 s 343... (moments ago)

53:40 CRLF: UTF-8: 4 spaces:

238 of 5966M

SavedInstanceState Example [C:\Users\Admin\AndroidStudioProjects\DailyCoding\SavedInstanceStateExample] - ...\app\src\main\java\com\dailycoding\savedinstancestateexample\MainActivity.java [app] - Android Studio (Administrator)

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

SavedInstanceStateExample > app > src > main > java > com > dailycoding > savedinstancestateexample > MainActivity

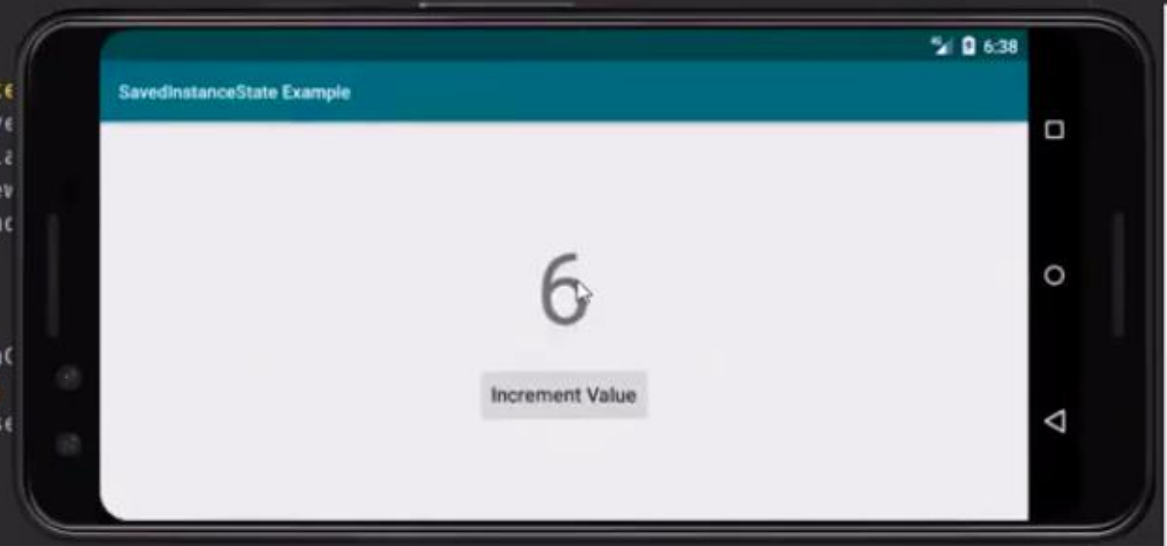
app | API 21

Android

activity_main.xml | MainActivity.java

- app
  - manifests
  - java
    - com.dailycoding.savedin
      - MainActivity
    - com.dailycoding.savedin
    - com.dailycoding.savedin
  - java (generated)
  - res
    - drawable
    - layout
      - activity_main.xml
    - mipmap
    - values
  - res (generated)
- Gradle Scripts

```
22
23
24      @Override
25      protected void onCreate
26          super.onCreate(save
27          setContentView(R.la
28          txtTotal = findVie
29          btnIncrement = finc
30
31          counter = 0;
32
33          btnIncrement.setOn
36                  counter++;
37                  txtTotal.se
38          });
40
41      }
42
43      @Override
44      protected void onSaveInstanceState(Bundle outState) {
45          super.onSaveInstanceState(outState);
46          outState.putInt("key_counter", counter);
47      }
48
49      @Override
50      protected void onRestoreInstanceState(@NonNull Bundle savedInstanceState) {
51          super.onRestoreInstanceState(savedInstanceState);
52          counter = savedInstanceState.getInt( key: "key_counter",  defaultValue: 0);
53          txtTotal.setText("" + counter);
54      }
55  }
56
```



Install successfully finished in 3 s 343 ms.

Activity > onRestoreInstanceState()

Run | 6: Logcat | TODO | Terminal | Build | Profiler

Install successfully finished in 3 s 343... (moments ago)

53:40 CRLF: UTF-8: 4 spaces:

SUBSCRIBE

SavedInstanceState Example [C:\Users\Admin\AndroidStudioProjects\DailyCoding\SavedInstanceStateExample] - ...\app\src\main\java\com\dailycoding\savedinstancestateexample\MainActivity.java [app] - Android Studio (Administrator)

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

SavedInstanceStateExample > app > src > main > java > com > dailycoding > savedinstancestateexample > MainActivity

activity_main.xml | MainActivity.java

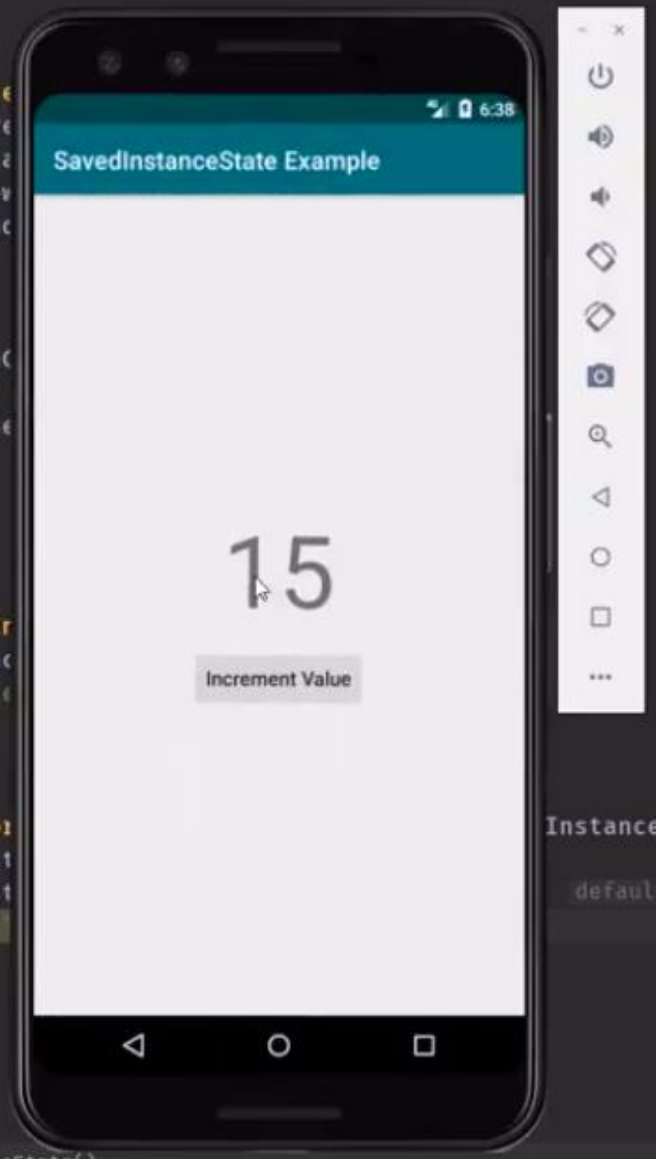
Android

- app
  - manifests
  - java
    - com.dailycoding.savedin
      - MainActivity
    - com.dailycoding.savedin
    - com.dailycoding.savedin
  - java (generated)
  - res
    - drawable
    - layout
      - activity_main.xml
    - mipmap
    - values
  - res (generated)
- Gradle Scripts

```
22
23
24      @Override
25      protected void onCreate
26          super.onCreate(save
27          setContentView(R.la
28          txtTotal = findVie
29          btnIncrement = finc
30
31          counter = 0;
32
33          btnIncrement.setOn
34                  counter++;
35                  txtTotal.se
36          });
37
38      }
39
40      @Override
41      protected void onSaveIr
42          super.onSaveInstanc
43          outState.putInt("ke
44      }
45
46      @Override
47      protected void onResto
48          super.onRestoreInst
49          counter = savedInst
50          txtTotal.setText("
51      }
52  }
53
54
55
56
```

InstanceState) {

defaultValue: 0);



Activity > onRestoreInstanceState()

Run | 6: Logcat | TODO | Terminal | Build | Profiler

Install successfully finished in 3 s 343 ms.

Install successfully finished in 3 s 343... (moments ago)

53:40 CRLF: UTF-8: 4 spaces:

SUBSCRIBE

SavedInstanceState Example [C:\Users\Admin\AndroidStudioProjects\DailyCoding\SavedInstanceStateExample] - ...\app\src\main\java\com\dailycoding\savedinstancestateexample\MainActivity.java [app] - Android Studio (Administrator)

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

SavedInstanceStateExample > app > src > main > java > com > dailycoding > savedinstancestateexample > MainActivity

activity_main.xml | MainActivity.java

onPause()

onStop()

onDestroy()

Install successfully finished in 3 s 343 ms.

Run | 6: Logcat | TODO | Terminal | Build | Profiler

Install successfully finished in 3 s 343... (a minute ago)

53:40 CRLF: UTF-8: 4 spaces: