

**Coding Github Link:** <https://github.com/Bagabandi152/Mobile-Programming/tree/main/Lab02>

## Task 2.1

### Question 1

What changes are made when you add a second Activity to your app by choosing File > New > Activity and an Activity template? Choose one:

- The second Activity is added as a Java class. You still need to add the XML layout file.
- The second Activity XML layout file is created and a Java class added. You still need to define the class signature.
- The second Activity is added as a Java class, the XML layout file is created, and the AndroidManifest.xml file is changed to declare a second Activity.
- The second Activity XML layout file is created, and the AndroidManifest.xml file is changed to declare a second Activity.

### Question 2

What happens if you remove the android:parentActivityName and the <meta-data> elements from the second Activity declaration in the AndroidManifest.xml file? Choose one:

- The second Activity no longer appears when you try to start it with an explicit Intent.
- The second Activity XML layout file is deleted.
- The Back button no longer works in the second Activity to send the user back to the main Activity.
- The Up button in the app bar no longer appears in the second Activity to send the user back to the parent Activity.

### Question 3

Which constructor method do you use to create a new explicit Intent? Choose one:

- new Intent()
- new Intent(Context context, Class<?> class)
- new Intent(String action, Uri uri)
- new Intent(String action)

### Question 4

In the HelloToast app homework, how do you add the current value of the count to the Intent? Choose one:

- As the Intent data
- As the Intent TEXT\_REQUEST
- As an Intent action
- As an Intent extra

### Question 5

In the HelloToast app homework, how do you display the current count in the second "Hello" Activity? Choose one:

- Get the Intent that the Activity was launched with.
- Get the current count value out of the Intent.
- Update the TextView for the count.
- All of the above.

## Task 2.2

### Question 1

If you run the homework app before implementing `onSaveInstanceState()`, what happens if you rotate the device? Choose one:

- The EditText no longer contains the text you entered, but the counter is preserved.
- The counter is reset to 0, and the EditText no longer contains the text you entered.
- The counter is reset to 0, but the contents of the EditText is preserved.
- The counter and the contents of the EditText are preserved.

### Question 2

What Activity lifecycle methods are called when a device-configuration change (such as rotation) occurs? Choose one:

- Android immediately shuts down your Activity by calling `onStop()`. Your code must restart the Activity.
- Android shuts down your Activity by calling `onPause()`, `onStop()`, and `onDestroy()`. Your code must restart the Activity.
- Android shuts down your Activity by calling `onPause()`, `onStop()`, and `onDestroy()`, and then starts it over again, calling `onCreate()`, `onStart()`, and `onResume()`.
- Android immediately calls `onResume()`.

### Question 3

When in the Activity lifecycle is `onSaveInstanceState()` called? Choose one:

- `onSaveInstanceState()` is called before the `onStop()` method.
- `onSaveInstanceState()` is called before the `onResume()` method.
- `onSaveInstanceState()` is called before the `onCreate()` method.
- `onSaveInstanceState()` is called before the `onDestroy()` method.

### Question 4

Which Activity lifecycle methods are best to use for saving data before the Activity is finished or destroyed? Choose one:

- `onPause()` or `onStop()`
- `onResume()` or `onCreate()`
- `onDestroy()`
- `onStart()` or `onRestart()`

## Task 2.3

### Question 1

Which constructor method do you use to create an implicit Intent to launch a camera app?

- `new Intent()`
- `new Intent(Context context, Class<?> class)`
- `new Intent(String action, Uri uri)`
- `new Intent(String action)`

Question 2

When you create an implicit Intent object, which of the following is true?

- Don't specify the specific Activity or other component to launch.
- Add an Intent action or Intent categories (or both).
- Resolve the Intent with the system before calling `startActivity()` or `startActivityForResult()`.
- All of the above.

Question 3

Which Intent action do you use to take a picture with a camera app?

- `Intent takePicture = new Intent(Intent.ACTION_VIEW);`
- `Intent takePicture = new Intent(Intent.ACTION_MAIN);`
- `Intent takePicture = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);`
- `Intent takePicture = new Intent(Intent.ACTION_GET_CONTENT)`