**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)