Assignment1:

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Code:

activity_main.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  android:layout width="match parent"
  android:layout height="match parent"
  android:orientation="vertical"
  android:gravity="center"
      android:layout width="wrap content"
      android:layout height="wrap content"
      android:layout centerHorizontal="true"
      android:layout marginTop="30dp"
      android:padding="16dp"
      android:layout marginHorizontal="50dp"
      android:padding="10dp" />
      android:id="@+id/showQuoteButton"
      android:layout height="wrap content"
      android:visibility="gone"
      android:layout below="@id/themeSpinner"
      android:layout centerHorizontal="true"
       android:layout marginTop="20dp"
```

```
android:background="@drawable/button_background"
android:textColor="@android:color/white"
android:padding="10dp" />

<TextView
    android:id="@+id/quoteTextView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Select a theme and get a quote"
    android:layout_below="@id/showQuoteButton"
    android:layout_marginTop="60dp"
    android:layout_marginTop="60dp"
    android:padding="16dp"
    android:background="@drawable/quote_background"
    android:textSize="18sp"
    android:textColor="@android:color/black" />

<Button
    android:id="@+id/shareQuoteBtn"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_marginTop="20dp"
    android:layout_marginTop="20dp"
    android:background="@drawable/button_background"
    android:background="@drawable/button_background"
    android:textColor="@android:color/white"
    android:padding="10dp" />

</LinearLayout>
```

button background.xml

This drawable can be used as a background for a button or other UI elements to provide visual feedback when the user interacts with it. To use it, save the file with a .xml extension (e.g., button_selector.xml) in the res/drawable directory of your Android project and reference it in your layouts or styles.

ic_launcher_background.xml

```
android:width="108dp"
android:viewportHeight="108">
   android:fillColor="#3DDC84"
   android:fillColor="#00000000"
   android:strokeWidth="0.8"
   android:strokeColor="#33FFFFFF" />
   android:fillColor="#00000000"
   android:strokeColor="#33FFFFFF" />
   android:strokeWidth="0.8"
   android:strokeColor="#33FFFFFF" />
   android:fillColor="#00000000"
   android:strokeColor="#33FFFFFF" />
   android:fillColor="#00000000"
   android:strokeWidth="0.8"
   android:strokeColor="#33FFFFFF" />
   android:strokeWidth="0.8"
   android:strokeColor="#33FFFFFF" />
   android:fillColor="#00000000"
    android:strokeWidth="0.8"
   android:strokeColor="#33FFFFFF" />
```

```
android:strokeColor="#33FFFFFF" />
<path
   android:fillColor="#00000000"
   android:strokeWidth="0.8"
   android:strokeColor="#33FFFFFF" />
   android:fillColor="#00000000"
   android:strokeColor="#33FFFFFF" />
   android:pathData="M0,9L108,9"
    android:strokeWidth="0.8"
   android:strokeColor="#33FFFFFF" />
   android:fillColor="#00000000"
   android:strokeColor="#33FFFFFF" />
   android:pathData="MO,29L108,29"
   android:strokeColor="#33FFFFFF" />
<path
<path
   android:strokeColor="#33FFFFFF" />
   android:fillColor="#00000000"
   android:strokeColor="#33FFFFFF" />
   android:strokeColor="#33FFFFFF" />
<path
   android:pathData="M0,79L108,79"
```

```
android:strokeWidth="0.8"
android:strokeColor="#33FFFFFF" />
android:fillColor="#00000000"
android:strokeWidth="0.8"
android:strokeColor="#33FFFFFF" />
android:fillColor="#00000000"
android:pathData="M19,29L89,29"
android:strokeWidth="0.8"
android:fillColor="#00000000"
android:strokeColor="#33FFFFFF" />
android:fillColor="#00000000"
android:strokeWidth="0.8"
android:pathData="M19,59L89,59"
android:strokeColor="#33FFFFFF" />
android:fillColor="#00000000"
android:strokeWidth="0.8"
android:strokeColor="#33FFFFFF" />
android:pathData="M19,79L89,79"
android:pathData="M29,19L29,89"
android:strokeWidth="0.8"
```

spinner background.xml

This XML defines a drawable shape with the following characteristics:

- It has a white solid fill.
- It has rounded corners with a 10 dp radius.
- It has a 2 dp wide border with a light blue color.

quota_background.xml

Image:

```
    ✓ ☐ res
    ✓ ⑥ drawable
    ☒ background_image.jpg
    ✓> button_background.xml
```

Customized background is made using jpg image in res/drawable.

MainActivity.kt

```
package com.example.assignment1
import android.content.Intent
import android.os.Bundle
import android.widget.AdapterView
import android.widget.ArrayAdapter
import android.widget.Button
import android.widget.Spinner
import android.widget.TextView
import android.appcompat.app.AppCompatActivity
class MainActivity : AppCompatActivity() {
  lateinit var selectedTheme: String
      super.onCreate(savedInstanceState)
      setContentView(R.layout.activity main)
      themeSpinner = findViewById(R.id.themeSpinner)
      shareQuoteBtn = findViewById(R.id.shareQuoteBtn)
      quoteTextView = findViewById(R.id.quoteTextView)
      val themes = arrayOf("Inspirational", "Motivational", "Funny", "Life",
      val adapter = ArrayAdapter(this, android.R.layout.simple spinner item,
themes)
adapter.setDropDownViewResource(android.R.layout.simple spinner dropdown item)
       themeSpinner.adapter = adapter
       themeSpinner.setPrompt("What type of Quote do you want??");
```

```
AdapterView.OnItemSelectedListener {
           override fun onItemSelected(parent: AdapterView<*>, view: View?,
position: Int, id: Long) {
              selectedTheme = themes[position]
               displayQuote(selectedTheme)
           override fun onNothingSelected(parent: AdapterView<*>) {
          intent.setType("text/plain");
           intent.putExtra(android.content.Intent.EXTRA TEXT,
           intent.putExtra(android.content.Intent.EXTRA SUBJECT, "Quote Share")
           this.startActivity(Intent.createChooser(intent, "Share"));
  private fun displayQuote(theme: String) {
```

For the Set up Spinner section: Here, an ArrayAdapter is created with the themes array and set to the Spinner. The Spinner's prompt is also set.

Spinner Item Selected Listener: An anonymous inner class is created to handle item selection events on the Spinner. When an item is selected, it sets selectedTheme and calls displayQuote with the selected theme.

For button Click Listener: An OnClickListener is set on the button. When clicked, it creates an Intent to share the text from quoteTextView and starts an activity to choose an app to share the quote.

Summary

- The activity allows users to select a quote theme from a Spinner.
- When a theme is selected, the corresponding quote is displayed in a TextView.
- A Button allows users to share the displayed quote via an external sharing intent.

Output:

Main page:



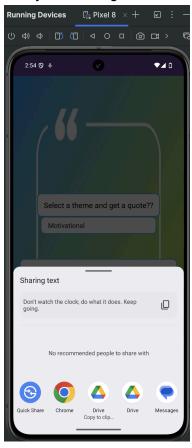
On choosing theme, below options are shown (using Spinner):



Example, when choosing "Motivational" theme, the quote is shown:



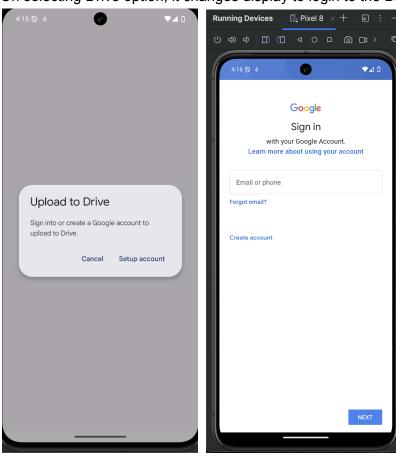
Nextly, on clicking Quote button:



On selecting Messages View changed to select contact whom to share quote directly from application (View1):



On selecting Drive option, it changes display to login to the Drive (View2):



Searching for Bluetooth device on selecting bluetooth to share quote (View3):

