```
Simplicity is the soul of efficiency. – Austin Freeman

Quotes Generated: 2

GENERATE QUOTE
```

```
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

    // Initialize UI components
    quoteText = findViewById(R.id.quoteText);
        generateButton = findViewById(R.id.quoteCounter);
        waveView = findViewById(R.id.quoteCounter);
        waveView = findViewById(R.id.waveView);

    // Initialize quotes list
    quotes = new ArrayList<>();
    quotes.add("The best way to predict the future is to invent it. - Alan Kay");
    quotes.add("The best way to predict the future is to invent it. it's bad. - Cory House");
    quotes.add("The best way to predict the future is to invent it. - Alan Kay");
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    quotes.add("The best way to predict the future is to invent it. - Alan Kay");
    quotes.add("Experience is the soul of efficiency. - Austin Freeman");
    quotes.add("First, solve the problem. Then, write the code. - John Johnson");
    quotes.add("Experience is the name everyone gives to their mistakes. - Oscar Wilde");
}

// Set button click listener
//@Override
lussge

public void GenerateRandomQuote(View view) {
    int index = random.nextInt(quotes.size());
    String randomQuote = quotes.get(index);
    quoteCounter.setText("Quotes.Generated: " + quoteCount);

// Change background color randomLy
    int newColor = colors[random.nextInt(colors.length)];
    findViewById(R.id.main).setBackgroundColor(newColor);

// Apply typing effect
applyTypingEffect(randomQuote);

// Animate the wave on new quote
animateWave();
```

```
private void apply/pynigerrect(rinal string fullext) {
    final Handler handler = new Handler();
    final int delay = 50; / Typing speed (ms)
    quoteText.setText(""); // Clear previous text

for (int i = 0; i < fullText.length(); i++) {
    final int final i = i;
    handler.postDelayed(new Runnable() {
        @Override
        public void run() {
            quoteText.append(String.valueOf(fullText.charAt(finalI)));
        }
        }, delayMimus delay * 1);
    }
}

lusage

private void animateWave() {
    // Move up/down

ObjectAnimator translateY = ObjectAnimator.ofFloat(maveView, properlyName "translationY", values Of, 20f, Of);
    translateY.setDuration(1500);
    translateY.setDurationfonew LinearInterpolator());
    translateY.setRepeatCount(ValueAnimator.INFINITE);
    translateY.setRepeatCount(ValueAnimator.AEVERSE);

// Slight horizontal sway
ObjectAnimator translateX = ObjectAnimator.ofFloat(maveView, properlyName "translationX", values Of, 10f, Of);
    translateX.setDuration(3800); // Slower side-to-side cycle
    translateX.setInterpolator(new LinearInterpolator());
    translateX.setTexpeatCount(ValueAnimator.INFINITE);
    translateX.setRepeatCount(ValueAnimator.INFINITE);
    translateX.setRepeatCount(ValueAnimator.INFINITE);
    translateX.setRepeatCount(ValueAnimator.INFINITE);
    translateX.setRepeatCount(ValueAnimator.INFINITE);
    translateX.setRepeatCount(ValueAnimator.REVERSE);

// Play both animations together
AnimatorSet animatorSet = new AnimatorSet();
    animatorSet animatorSet = new AnimatorSet();
    animatorSet.start();
```

Reflection:

I had some free time so I made it look a bit nicer. I like how these labs can be as easy or difficult as you want them to be. I Also think these labs could be a very good resume project if they were more

```
android:id="0+id/divider"
   android:layout_width="200dp"
   android:layout_height="2dp"
   android:background="#42E71D"
   app:layout_constraintTop_toBottomOf="@id/quoteText"
   app:lavout_constraintStart_toStartOf="parent"
   android:layout_marginTop="10dp" />
   app:layout constraintTop toBottomOf="@+id/divider"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintEnd_toEndOf="parent"
   android:layout_marginTop="10dp"/>
<Button
   android:id="0+id/generateButton"
   android:layout_width="200dp"
   android:layout_height="wrap_content"
   android:layout_marginTop="20dp"
   android:layout_marginBottom="50dp"
   android:gravity="center"
   app:layout constraintBottom toBottomOf="parent"
   app:layout constraintStart toStartOf="parent"
   app:layout_constraintEnd_toEndOf="parent"
```

related, so at the end of the course we would have a medium sized project. That alone could qualify everyone for way more jobs than we currently are qualified for.