# LAB 3

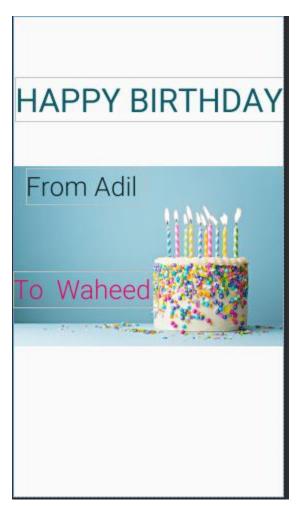
**Task No. 1:** Create Birthday Card Application.

## **Solution**:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <ImageView</pre>
        android:id="@+id/imageView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="52dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout constraintHorizontal bias="0.0"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="1.0"
        app:srcCompat="@drawable/cake" />
    <TextView
        android:id="@+id/textView"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="HAPPY BIRTHDAY
        android:textColor="#0A5A68"
        android:textSize="50dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout constraintTop toTopOf="@+id/imageView"
        app:layout_constraintVertical_bias="0.14" />
    <TextView
        android:id="@+id/textView1"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:fontFamily="sans-serif-light"
        android:textColor="#0D2023"
        android:textSize="40dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal bias="0.086"
```

```
app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop_toTopOf="@+id/imageView"
        app:layout_constraintVertical_bias="0.341" />
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:fontFamily="sans-serif-light"
        android:textColor="#EC0566"
        android:textSize="40dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="@+id/imageView"
        app:layout_constraintVertical_bias="0.573" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

## **OUTPUT:**



## **Task No. 2:** Create login page.

## **Solution: & OUTPUT:**

#### CODE:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android: layout height="match parent"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android: fontFamily="sans-serif-light"
        android:text="LOGIN"
        android:textColor="@color/colorPrimary"
        android:textSize="40dp"
        app:layout_constraintBottom_toTopOf="@+id/textView3"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.848" />
    <EditText
        android:id="@+id/editText2"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginBottom="44dp"
        android:ems="10"
        android:inputType="textPassword"
        app:layout_constraintBottom_toTopOf="@+id/button"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />
    <EditText
        android:id="@+id/editText"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout_marginBottom="32dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text=""
        app:layout constraintBottom toTopOf="@+id/textView4"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent" />
    <TextView
        android:id="@+id/textView4"
        android:layout width="wrap content"
```

```
android:layout height="wrap content"
        android:layout marginBottom="36dp"
        android:text="Password"
        android:textColor="@color/colorPrimaryDark"
        android:textSize="17dp"
        app:layout_constraintBottom_toTopOf="@+id/editText2"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout constraintHorizontal bias="0.284"
        app:layout constraintStart toStartOf="parent" />
    <TextView
        android:id="@+id/textView3"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout marginBottom="28dp"
        android:text="UserName"
        android:textColor="@color/colorPrimaryDark"
        android:textSize="17dp"
                                                                   LOGIN
app:layout_constraintBottom_toTopOf="@+id/editText"
                                                              UserName
        app:layout constraintEnd toEndOf="parent"
app:layout constraintHorizontal bias="0.287"
app:layout_constraintStart_toStartOf="parent" />
                                                               Password
    <Button
        android:id="@+id/button"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginBottom="228dp"
        android:text="Button"
android:background="@color/colorPrimaryDark"
                                                                      BUTTON
        android:textColor="#FFFFFF"
app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
app:layout constraintHorizontal bias="0.498"
        app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```