ALARM CLOC:

DISPLAYMESSAGEACTIVITY.JAVA:

package com.example.myapplication1;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.TextView;  
  
public class DisplayMessageActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_display\_message*);  
  
 // Get the Intent that started this activity and extract the string  
 Intent intent = getIntent();  
 String message = intent.getStringExtra(MainActivity.*EXTRA\_MESSAGE*);  
  
 // Capture the layout's TextView and set the string as its text  
 TextView textView = findViewById(R.id.*textView*);  
 textView.setText(message);  
 }  
}

MAIN ACTIVITY.JAVA:

package com.example.myapplication1;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.DigitalClock;  
import android.widget.EditText;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import java.text.SimpleDateFormat;  
import java.util.Calendar;  
import java.util.Date;  
  
  
public class MainActivity extends AppCompatActivity {  
 public static final String *EXTRA\_MESSAGE* = "com.example.myfirstapp.MESSAGE";  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 // inititate the digital and analog clock  
 DigitalClock simpleDigitalClock = (DigitalClock) findViewById(R.id.*simpleDigitalClock*);  
 simpleDigitalClock.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Toast.*makeText*(MainActivity.this, "Digital Clock", Toast.*LENGTH\_SHORT*).show(); //display a toast for digital clock  
 }  
 });  
 }  
 */\*\* Called when the user taps the Send button \*/* public void sendMessage(View view) {  
 Intent intent = new Intent(this, DisplayMessageActivity.class);  
 EditText editText = (EditText) findViewById(R.id.*editText*);  
 String message = editText.getText().toString();  
 intent.putExtra(*EXTRA\_MESSAGE*, message);  
 startActivity(intent);  
 }  
  
  
  
}

ACTIVITY DISPLAY XML:

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout 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=".DisplayMessageActivity">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="148dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 android:text="TextView"  
 android:textColor="@color/colorAccent"  
 android:textSize="24sp"  
 app:fontFamily="cursive"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
</androidx.constraintlayout.widget.ConstraintLayout>

MAIN.XML:

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout 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">  
  
 <DigitalClock  
 android:id="@+id/simpleDigitalClock"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="100dp"  
 android:padding="20dp"  
 android:textSize="40sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" /> <!-- set 40sp for the displayed text size -->  
  
 <EditText  
 android:id="@+id/editText"  
 android:layout\_width="0dp"  
 android:layout\_height="51dp"  
 android:layout\_marginStart="28dp"  
 android:layout\_marginLeft="28dp"  
 android:ems="10"  
 android:hint="@string/edit\_message"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toStartOf="@+id/button"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="46dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginLeft="16dp"  
 android:layout\_marginEnd="16dp"  
 android:layout\_marginRight="16dp"  
 android:onClick="sendMessage"  
 android:text="@string/button\_send"  
 app:layout\_constraintBaseline\_toBaselineOf="@+id/editText"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toEndOf="@+id/editText"  
 tools:ignore="MissingConstraints" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>