



**Ganpat
University**

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Enhance an application which is already created in practical-9 by implementing following features:

1. Copy practical-9 into different folder with name of practical-10 & change name of application also.
2. Add Splash Screen in which Ganpat University logo should be displayed.
3. This logo should be change by using frame by frame animation & twin animation as shown in video.
4. In dashboard Activity, add frame by frame animation in card view as shown in video. There are one heart shape animated image have been added in application.
5. In notes activity you can find frame by frame animated photos.

Activity_splash.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"
    android:id="@+id/splash_layout"
    android:background="@drawable/gradient_background"
    tools:context=".SplashActivity">

    <ImageView
        android:layout_width="wrap_content"
        android:layout_height="150dp"
        android:id="@+id/logo"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        />

</androidx.constraintlayout.widget.ConstraintLayout>
```

SplashActivity.kt:

```
package com.example.practical_10_20012532001
```

```
import android.content.Intent
```

```
import android.graphics.Color
import android.graphics.drawable.AnimationDrawable
import android.os.Build
import android.os.Bundle
import android.os.Handler
import android.view.View
import android.view.WindowManager
import android.view.animation.Animation
import android.view.animation.AnimationUtils
import android.widget.ImageView
import androidx.appcompat.app.AppCompatActivity
import androidx.constraintlayout.widget.ConstraintLayout

class SplashActivity : AppCompatActivity() {
    lateinit var imageView : ImageView
    lateinit var mainLayout : ConstraintLayout
    lateinit var animation : AnimationDrawable
    lateinit var animatedLogo: Animation

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_splash)

        setStatusBarTransparent()

        imageView = findViewById(R.id.logo)
        mainLayout = findViewById(R.id.splash_layout)

        imageView.setBackgroundResource(R.drawable.animation)
        animation = imageView.background as AnimationDrawable
        animation.start()

        animatedLogo = AnimationUtils.loadAnimation(this, R.anim.logo_animation)
        imageView.startAnimation(animatedLogo)

        animatedLogo.setAnimationListener(object : Animation.AnimationListener {
            override fun onAnimationStart(animation: Animation?) {}
            override fun onAnimationEnd(animation: Animation?) {
                imageView.animate().scaleX(3.0f).scaleY(3.0f).alpha(0.1f).duration = 1500
                Handler().postDelayed({
                    val intent = Intent(this@SplashActivity, DashBoardActivity::class.java)
                    startActivity(intent)
                    finish()
                }, 1500)
            }
        })
    }
}
```

```
        override fun onAnimationRepeat(animation: Animation) {}
    }

    private fun setWindowFlag(flagTranslucentStatus: Int, b: Boolean) {
        val winParameters = window.attributes
        if(b)
            winParameters.flags = winParameters.flags or flagTranslucentStatus
        else{
            winParameters.flags = winParameters.flags and flagTranslucentStatus.inv()
        }
        window.attributes = winParameters
    }

    private fun setStatusBarTransparent(){
        if(Build.VERSION.SDK_INT in 19..20){
            if(Build.VERSION.SDK_INT >= Build.VERSION_CODES.KITKAT){
                setWindowFlag(WindowManager.LayoutParams.FLAG_TRANSLUCENT_STATUS, true)
            }
        }
        if(Build.VERSION.SDK_INT >= 19){
            window.decorView.systemUiVisibility = View.SYSTEM_UI_FLAG_LAYOUT_STABLE or
            View.SYSTEM_UI_FLAG_LAYOUT_FULLSCREEN
        }

        if(Build.VERSION.SDK_INT >= 21){
            setWindowFlag(WindowManager.LayoutParams.FLAG_TRANSLUCENT_STATUS, false)
            window.statusBarColor = Color.TRANSPARENT
        }
    }
}
```

logo_animation.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">

    <translate
        android:startOffset="3200"
        android:fromXDelta="1.0"
        android:fromYDelta="1.0"
        android:toXDelta="10.0"
        android:toYDelta="100.0"
        android:duration="1500"/>

    <translate
        android:fromXDelta="1.0"
```

```
        android:fromYDelta="1.0"
        android:toXDelta="-10.0"
        android:toYDelta="-100.0"
        android:duration="1500"
        android:startOffset="4700"
    />

    <rotate
        android:startOffset="3200"
        android:fromDegrees="0"
        android:toDegrees="360"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="3000" />

    <scale
        android:startOffset="3200"
        android:duration="1500"
        android:fromXScale="1.0"
        android:fromYScale="1.0"
        android:pivotX="50%"
        android:pivotY="50%"
        android:toXScale="2.0"
        android:toYScale="2.0" />

    <scale
        android:startOffset="4700"
        android:fromXScale="1.0"
        android:toXScale="0.5"
        android:fromYScale="1.0"
        android:toYScale="0.5"
        android:duration="1500"
        android:pivotX="50%"
        android:pivotY="50%"
    />
</set>
```

Heart_animation.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<animation-list
    xmlns:android="http://schemas.android.com/apk/res/android">

    <item android:drawable="@drawable/heart1" android:duration="400" />
    <item android:drawable="@drawable/heart2" android:duration="400" />
    <item android:drawable="@drawable/heart3" android:duration="400" />
    <item android:drawable="@drawable/heart4" android:duration="400" />
    <item android:drawable="@drawable/heart5" android:duration="400" />
```

```
</animation-list>
```

Splash_slider_animation.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<animation-list android:oneshot="true"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:drawable="@drawable/uvpce_logo_1" android:duration="400" />
    <item android:drawable="@drawable/uvpce_logo_2" android:duration="400" />
    <item android:drawable="@drawable/uvpce_logo_3" android:duration="400" />
    <item android:drawable="@drawable/uvpce_logo_4" android:duration="400" />
    <item android:drawable="@drawable/uvpce_logo_5" android:duration="400" />
    <item android:drawable="@drawable/uvpce_logo_6" android:duration="400" />
    <item android:drawable="@drawable/uvpce_logo_7" android:duration="400" />
    <item android:drawable="@drawable/uvpce_transparent_logo" android:duration="400" />
</animation-list>
```

Slider_animation.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<animation-list
    xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:drawable="@drawable/slider4" android:duration="3000" />
    <item android:drawable="@drawable/slider1" android:duration="3000" />
    <item android:drawable="@drawable/slider2" android:duration="3000" />
    <item android:drawable="@drawable/slider3" android:duration="3000" />
    <item android:drawable="@drawable/slider5" android:duration="3000" />
</animation-list>
```

AndroidManifest.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.practical_10_20012022003">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Practical_10_20012022003">
        <activity
            android:name=".SplashActivity"
            android:exported="true" >
            <intent-filter>
```

```
<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />
</intent-filter>
</activity>
<activity
    android:name=".NotificationActivity"
    android:exported="true" />
<service android:name=".AlarmService"
    />
<receiver
    android:name=".MyReceiver"
    android:enabled="true"
    android:exported="true" />

<activity
    android:name=".NotesListActivity"
    android:exported="true" />
<activity
    android:name=".DashBoardActivity"
    android:exported="true" >
</activity>
<activity
    android:name=".SignupActivity"
    android:exported="true" />
<activity
    android:name=".MainActivity"
    android:exported="true">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />

        <category android:name="android.intent.category.LAUNCHER" />
    </intent-filter>
</activity>
</application>

</manifest>
```

Activity_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"
    android:layout_gravity="center"
    style="@style/Theme.AppCompat.Light.NoActionBar"
    tools:context=".MainActivity">>

<ImageView
    android:id="@+id/imageView"
    android:layout_width="175dp"
    android:layout_height="67dp"
    app:layout_constraintBottom_toTopOf="@+id/view2"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.537"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="1.0"
    app:srcCompat="@mipmap/ganpat_logo_foreground" />

<View
    android:id="@+id/view2"
    android:layout_width="220dp"
    android:layout_height="570dp"
    android:background="@drawable/gradient_view2"
    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" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Login"
    android:textColor="@color/white"
    android:textSize="25sp"
    app:layout_constraintBottom_toTopOf="@+id/cardViewForm"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.2"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/imageView"
    app:layout_constraintVertical_bias="0.224"></TextView>

<TextView
    android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
        android:layout_marginStart="96dp"
        android:layout_marginLeft="96dp"
        android:text="Signup"
        android:textSize="25sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.792"
        app:layout_constraintStart_toEndOf="@+id/textView3"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.144">></TextView>

<androidx.cardview.widget.CardView
    android:id="@+id/cardViewForm"
    android:layout_width="319dp"
    android:layout_height="321dp"
    android:padding="20dp"
    app:cardCornerRadius="20dp"
    app:cardElevation="20dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        android:padding="20dp"
        android:layout_weight="0.7"
        android:paddingBottom="0dp">

        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            app:startIconDrawable="@drawable/ic_baseline_email_24">

            <com.google.android.material.textfield.TextInputEditText
                android:layout_width="match_parent"
                android:id="@+id/email"
                android:layout_height="wrap_content">

```

```
        android:layout_marginTop="20dp"
        android:hint="Enter Email" />

    </com.google.android.material.textfield.TextInputLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:startIconDrawable="@drawable/ic_baseline_vpn_key_24">

        <com.google.android.material.textfield.TextInputEditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/password"
            android:layout_marginTop="20dp"
            android:hint="Enter Password" />

    </com.google.android.material.textfield.TextInputLayout>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Forgot Password?"
        android:layout_gravity="right"
    />

</LinearLayout>

<!--
    <LinearLayout-->
        android:layout_width="match_parent"-->
        android:layout_height="wrap_content"-->
        android:background="#00000000"-->
        android:layout_gravity="bottom"-->
        android:layout_marginTop="-33dp"-->
    >-->
    -->
</LinearLayout>-->
<ImageView
    android:layout_width="match_parent"
    android:layout_height="150dp"
    android:src="@drawable/ic_wave_svg"
    android:layout_gravity="bottom"
    android:scaleType="fitXY"
```

```
        android:layout_weight="0.5"
    />
</LinearLayout>

</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/cardView"
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:layout_marginLeft="70dp"
    android:backgroundTint="#00000000"
    app:cardElevation="30dp"
    app:layout_constraintBottom_toBottomOf="@+id/cardViewForm"
    app:layout_constraintEnd_toEndOf="@+id/cardViewForm"
    app:layout_constraintHorizontal_bias="0.113"
    app:layout_constraintStart_toStartOf="@+id/cardViewForm"
    app:layout_constraintTop_toBottomOf="@+id/cardViewForm">

    <androidx.appcompat.widget.AppCompatButton
        android:id="@+id/login"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:background="@drawable/button_gradient"
        android:text="Login"
        android:textColor="@color/white"
        android:textSize="20sp" />
</androidx.cardview.widget.CardView>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Don't Have an Account?"
    android:textSize="20sp"
    android:id="@+id/dont_have_account"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/view2"
    />

<TextView
    android:id="@+id/account"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```

```
        android:layout_gravity="right"
        android:text="Signup"
        android:textAllCaps="true"
        android:textColor="#FF00FF"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/dont_have_account"
        app:layout_constraintVertical_bias='0' />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.kt

```
package com.example.practical_10_20012532001
```

```
import android.content.Intent
import android.graphics.Color
import android.os.Build
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.view.View
import android.view.WindowManager
import android.widget.TextView
import android.widget.Toast
import androidx.appcompat.widget.AppCompatButton
import com.google.android.material.textfield.TextInputEditText

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        setStatusBarTransparent()

        val loginBtn = findViewById<AppCompatButton>(R.id.login)
        val email = findViewById<TextInputEditText>(R.id.email)
        val password = findViewById<TextInputEditText>(R.id.password)
        val account = findViewById<TextView>(R.id.account)

        account.setOnClickListener {
            Intent(this, SignupActivity::class.java).apply {
                startActivity(this)
            }
        }
    }
}
```

```
        }

    loginBtn.setOnClickListener{
        val data : LoginInfo? = Intent.extras?.getSerializable("user_data") as? LoginInfo
        if(data != null) {
            when {
                email.text!! .toString() == "" -> {
                    Toast.makeText(this, "Email Is Required!", Toast.LENGTH_SHORT).show()
                }
                email.text!! .toString() != data.getEmail() -> {
                    Toast.makeText(this, "Email Is Wrong!", Toast.LENGTH_SHORT).show()
                }
                password.text!! .toString() == "" -> {
                    Toast.makeText(this, "Password Is Required!", Toast.LENGTH_SHORT).show()
                }
                password.text!! .toString() != data.getPassword() -> {
                    Toast.makeText(this, "Password Is Wrong!", Toast.LENGTH_SHORT).show()
                }
                else -> {
                    Intent(this, DashBoardActivity::class.java).apply {
                        putExtra("user_data", data)
                        startActivity(this)
                    }
                }
            }
        } else {
            Toast.makeText(this, "All Fields Are Required!", Toast.LENGTH_SHORT).show()
        }
    }
}
```

```
private fun setWindowFlag(flagTranslucentStatus: Int, b: Boolean) {
    val winParameters = window.attributes
    if(b)
        winParameters.flags = winParameters.flags or flagTranslucentStatus
    else{
        winParameters.flags = winParameters.flags and flagTranslucentStatus.inv()
    }
    window.attributes = winParameters
}
```

```
private fun setStatusBarTransparent(){
    if (Build.VERSION.SDK_INT in 19..20) {
        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.KITKAT) {
            setWindowFlag(WindowManager.LayoutParams.FLAG_TRANSLUCENT_STATUS, true)
        }
    }
    if (Build.VERSION.SDK_INT >= 19) {
        window.decorView.systemUiVisibility = View.SYSTEM_UI_FLAG_LAYOUT_STABLE or
        View.SYSTEM_UI_FLAG_LAYOUT_FULLSCREEN
    }

    if (Build.VERSION.SDK_INT >= 21) {
        setWindowFlag(WindowManager.LayoutParams.FLAG_TRANSLUCENT_STATUS, false)
        window.statusBarColor = Color.TRANSPARENT
    }
}
```

activity_signup.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"
    android:layout_gravity="center"
    style="@style/Theme.AppCompat.Light.NoActionBar"
    tools:context=".MainActivity">
```

<View

```
    android:id="@+id/view2"
    android:layout_width="195dp"
    android:layout_height="662dp"
    android:background="@drawable/gradient_view1"
    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="parent"
    app:layout_constraintVertical_bias="1.0" />
```

<ImageView

```
    android:id="@+id/imageView"
    android:layout_width="wrap_content"
```

```
        android:layout_height="80dp"
        app:layout_constraintBottom_toTopOf="@+id/cardViewForm"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.022"
        app:srcCompat="@mipmap/ganpat_logo_foreground" />
```

<TextView

```
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Login"
    android:textSize="25sp"
    app:layout_constraintBottom_toTopOf="@+id/cardViewForm"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.192"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/imageView"
    app:layout_constraintVertical_bias="0.395"></TextView>
```

<TextView

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="96dp"
    android:layout_marginLeft="96dp"
    android:text="Signup"
    android:textColor="@color/white"
    android:textSize="25sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.682"
    app:layout_constraintStart_toEndOf="@+id/textView3"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.127"></TextView>
```

<androidx.cardview.widget.CardView

```
    android:id="@+id/cardViewForm"
    android:layout_width="342dp"
    android:layout_height="537dp"
    android:padding="20dp"
    app:cardCornerRadius="20dp"
    app:cardElevation="20dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.492"
```

```
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.809">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:orientation="vertical"
            android:padding="20dp"
            android:paddingBottom="0dp"
            android:layout_weight="0.7">
        >

        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            app:startIconDrawable="@drawable/ic_baseline_account_circle_24">

            <com.google.android.material.textfield.TextInputEditText
                android:layout_width="match_parent"
                android:id="@+id/username"
                android:layout_height="wrap_content"
                android:layout_marginTop="0dp"
                android:hint="User Full Name" />

        </com.google.android.material.textfield.TextInputLayout>

        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            app:startIconDrawable="@drawable/ic_baseline_call_24">

            <com.google.android.material.textfield.TextInputEditText
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginTop="10dp"
                android:id="@+id/phoneno"
                android:hint="Phone Number" />

        </com.google.android.material.textfield.TextInputLayout>
```

```
<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    app:startIconDrawable="@drawable/ic_baseline_location_city_24">

    <com.google.android.material.textfield.TextInputEditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:id="@+id/city"
        android:hint="City" />

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    app:startIconDrawable="@drawable/ic_baseline_email_24">

    <com.google.android.material.textfield.TextInputEditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:id="@+id/email"
        android:hint="Email" />

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    app:startIconDrawable="@drawable/ic_baseline_vpn_key_24">

    <com.google.android.material.textfield.TextInputEditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:id="@+id/password"
        android:hint="Password" />

</com.google.android.material.textfield.TextInputLayout>
```

```
<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    app:startIconDrawable="@drawable/ic_baseline_vpn_key_24">

    <com.google.android.material.textfield.TextInputEditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:id="@+id/cpassword"
        android:hint="Confirm Password" />

</com.google.android.material.textfield.TextInputLayout>

</LinearLayout>

<ImageView
    android:layout_width="match_parent"
    android:layout_height="150dp"
    android:src="@drawable/ic_wave_svg"
    android:layout_gravity="bottom"
    android:scaleType="fitXY"
    android:layout_weight="0.5" />

<LinearLayout-->
    android:layout_width="match_parent"-->
    android:layout_height="wrap_content"-->
    android:background="#00000000"-->
    android:elevation="-1dp"-->
    android:layout_gravity="bottom"-->
    android:layout_weight="0.2"-->
    >-->

    <ImageView-->
        android:layout_width="match_parent"-->
        android:layout_height="150dp"-->
        android:src="@drawable/ic_wave_svg" />-->
</LinearLayout>-->

</LinearLayout>

</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:backgroundTint="#00000000"
    android:foregroundGravity="center"
    app:cardElevation="30dp"
    app:layout_constraintBottom_toBottomOf="@+id/cardViewForm"
    app:layout_constraintEnd_toEndOf="@+id/cardViewForm"
    app:layout_constraintStart_toStartOf="@+id/cardViewForm"
    app:layout_constraintTop_toBottomOf="@+id/cardViewForm">

<androidx.appcompat.widget.AppCompatButton
    android:id="@+id/signup"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/button_gradient"
    android:text="Signup"
    android:textColor="@color/white"
    android:textSize="20sp" />
</androidx.cardview.widget.CardView>

</androidx.constraintlayout.widget.ConstraintLayout>
```

SignupActivity.kt:

```
package com.example.practical_10_20012532001

import android.content.Intent
import android.graphics.Color
import android.os.Build
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.view.View
import android.view.WindowManager
import android.widget.TextView
import android.widget.Toast
import androidx.appcompat.widget.AppCompatButton
import com.google.android.material.textfield.TextInputEditText

class SignupActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_signup)

        setStatusBarTransparent()

        val signupBtn = findViewById<AppCompatButton>(R.id.signup)
```

```
val username = findViewById<EditText>(R.id.username)
val phoneno = findViewById<EditText>(R.id.phoneno)
val city = findViewById<EditText>(R.id.city)
val email = findViewById<EditText>(R.id.email)
val password = findViewById<EditText>(R.id.password)
val cpassword = findViewById<EditText>(R.id.cpassword)

signupBtn.setOnClickListener {

    when {
        username.text.toString() == "" -> {
            Toast.makeText(this, "Username is required!", Toast.LENGTH_SHORT).show()
        }
        phoneno.text.toString() == "" -> {
            Toast.makeText(this, "Phone No. is required!", Toast.LENGTH_SHORT).show()
        }
        city.text.toString() == "" -> {
            Toast.makeText(this, "City is required!", Toast.LENGTH_SHORT).show()
        }
        email.text.toString() == "" -> {
            Toast.makeText(this, "Email is required!", Toast.LENGTH_SHORT).show()
        }
        password.text.toString() == "" -> {
            Toast.makeText(this, "Password is required!", Toast.LENGTH_SHORT).show()
        }
        password.text.toString() != cpassword.text.toString() -> {
            Toast.makeText(this, "Password Doesn't Match!", Toast.LENGTH_SHORT).show()
        }
        else -> {
            Intent(this, MainActivity::class.java).apply {
                val userData = LoginInfo(
                    username.text.toString(),
                    phoneno.text.toString().toInt(),
                    city.text.toString(),
                    email.text.toString(),
                    password.text.toString()
                )
                putExtra("user_data", userData)
                startActivity(this)
            }
        }
    }
}

private fun setWindowFlag(flagTranslucentStatus: Int, b: Boolean) {
    val winParameters = window.attributes
```

```
    winParameters.flags = winParameters.flags or flagTranslucentStatus
}
else{
    winParameters.flags = winParameters.flags and flagTranslucentStatus.inv()
}
window.attributes = winParameters

private fun setStatusBarTransparent(){
    if (Build.VERSION.SDK_INT in 19..20) {
        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.KITKAT) {
            setWindowFlag(WindowManager.LayoutParams.FLAG_TRANSLUCENT_STATUS, true)
        }
    }
    if (Build.VERSION.SDK_INT >= 19) {
        window.decorView.systemUiVisibility = View.SYSTEM_UI_FLAG_LAYOUT_STABLE or
View.SYSTEM_UI_FLAG_LAYOUT_FULLSCREEN
    }

    if (Build.VERSION.SDK_INT >= 21){
        setWindowFlag(WindowManager.LayoutParams.FLAG_TRANSLUCENT_STATUS, false)
        window.statusBarColor = Color.TRANSPARENT
    }
}
```

LoginInfo.kt:

```
package com.example.practical_10_20012532001

import java.io.Serializable

class LoginInfo : Serializable {
    private var username : String = ""
    private var phoneno : Int = 0
    private var city : String = ""
    private var email : String = ""
    private var password : String = ""

    constructor(username:String, phoneno:Int, city:String, email:String, password:String) {
        this.username = username
        this.phoneno = phoneno
        this.city = city
        this.email = email
        this.password = password
    }
}
```

```
fun getUsername():String {
    return this.username
}

fun getPassword():String {
    return this.password
}

fun getCity():String{
    return this.city
}

fun getEmail():String {
    return this.email
}

fun getPhone():Int{
    return this.phoneno
}
```

activity_dash_board.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:app="http://schemas.android.com/apk/res-auto">

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/scrollView">
        <!-- Content goes here -->
    </ScrollView>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <!-- Content goes here -->
    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <!-- Content goes here -->
    </LinearLayout>

```

```
    android:orientation="vertical"
    >
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:padding="20dp"
    android:background="@drawable/gradient_background">

    <LinearLayout
        android:layout_width="260dp"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:gravity="center"
        android:orientation="vertical"
        android:padding="10dp">

        <TextView
            android:id="@+id/name"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:baselineAligned="false"
            android:text="Rajesh Shah"
            android:textColor="@color/white"
            android:textSize="30sp" />

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="rajesh@123gmail.com"
            android:id="@+id/email"
            android:textColor="#FFFFFF00"
            android:textSize="15sp"></TextView>

        <RatingBar
            android:layout_width="match_parent"
            android:scaleX="0.8"
            android:scaleY="0.8"
            android:layout_height="wrap_content" />

    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:layout_gravity="center"
        >
```

```
<ImageView  
    android:id="@+id/imageView2"  
    android:layout_width="60dp"  
    android:layout_height="60dp"  
    android:layout_gravity="center"  
    app:tint="#FFFFFF"  
    android:src="@drawable/user_account"  
/>  
  
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="Logout"  
    android:textSize="15sp"  
    android:id="@+id/logout"  
    android:textColor="#FF0000"  
    android:layout_gravity="center"  
/>  
  
</LinearLayout>  
</LinearLayout>  
  
<androidx.cardview.widget.CardView  
    android:layout_width="300dp"  
    android:layout_height="wrap_content"  
    android:layout_gravity="center"  
    android:layout_marginTop="-50dp"  
    android:background="@color/white"  
    android:padding="20dp"  
    app:cardCornerRadius="10dp"  
    app:cardElevation="20dp">  
  
<LinearLayout  
    android:layout_width="300dp"  
    android:layout_height="match_parent"  
    android:orientation="vertical"  
    android:padding="20dp">  
  
<RelativeLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_gravity="center"  
    android:orientation="horizontal">  
  
<TextView
```

```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginEnd="80dp"
        android:layout_marginRight="80dp"
        android:text="Personal Details"
        android:textColor="@color/black"
        android:textSize="20sp"
        android:textStyle="bold">></TextView>

<ImageView
    android:layout_width="35dp"
    android:layout_height="35dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_marginEnd="6dp"
    android:layout_marginRight="6dp"
    android:src="@drawable/ic_baseline_account_circle_24" />
</RelativeLayout>

<View
    android:layout_width="match_parent"
    android:layout_height="1dp"
    android:layout_marginTop="10dp"
    android:layout_marginBottom="10dp"
    android:background="@android:color/darker_gray" />

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="10dp"
    android:text="Full Name"
    android:textSize="18sp">></TextView>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Rajesh Mohanlal Shah"
    android:textColor="@color/black"
    android:id="@+id/username"
    android:textSize="18sp">></TextView>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="20dp"
    android:orientation="horizontal">
```

```
<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_marginTop="20dp"
    android:layout_marginRight="20dp"
    android:orientation="vertical">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Phone Number"
        android:textSize="18sp"></TextView>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="+91 9999999999"
        android:textColor="@color/black"
        android:id="@+id/number"
        android:textSize="18sp"></TextView>

</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_marginTop="20dp"
    android:orientation="vertical">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="City"
        android:textSize="18sp"></TextView>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Mehsana,Gujarat"
        android:id="@+id/city"
        android:textColor="@color/black"
        android:textSize="18sp"></TextView>

</LinearLayout>

</LinearLayout>
```

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginBottom="10dp"  
    android:text="Email Id"  
    android:textSize="18sp"></TextView>  
  
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="rajesh123@gmail.com"  
    android:id="@+id/email1"  
    android:textColor="@color/black"  
    android:textSize="18sp"></TextView>  
  
</LinearLayout>  
</androidx.cardview.widget.CardView>  
  
<androidx.cardview.widget.CardView  
    android:layout_width="300dp"  
    android:layout_height="wrap_content"  
    android:layout_gravity="center"  
    android:layout_marginTop="30dp"  
    android:background="@color/white"  
    app:cardCornerRadius="10dp"  
    app:cardElevation="20dp">  
  
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:orientation="vertical"  
    >  
  
<RelativeLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_gravity="center"  
    android:paddingLeft="20dp"  
    android:paddingTop="20dp"  
    android:paddingRight="15dp"  
    android:orientation="horizontal">  
  
<TextView  
    android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
        android:layout_marginEnd="80dp"
        android:layout_marginRight="80dp"
        android:text="Photos"
        android:textColor="@color/black"
        android:textSize="20sp"
        android:textStyle="bold">></TextView>

<ImageView
    android:id="@+id/heart"
    android:layout_width="40dp"
    android:layout_height="40dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_marginEnd="6dp"
    android:layout_marginRight="6dp" />
</RelativeLayout>

<ImageView
    android:layout_width="match_parent"
    android:layout_height="200dp"
    android:scaleType="fitXY"
    android:id="@+id/slider_image"
    />

</LinearLayout>

</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:layout_width="300dp"
    android:layout_height="250dp"
    android:layout_gravity="center"
    android:layout_marginTop="30dp"
    android:background="@color/white"
    app:cardElevation="20dp"
    android:padding="20dp"
    app:cardCornerRadius="10dp">

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="20dp">

<RelativeLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:orientation="horizontal">

```

```
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Set Alarm Time"
            android:textColor="@color/black"
            android:textSize="20sp"
            android:textStyle="bold"></TextView>
```

```
        <ImageView
            android:layout_width="35dp"
            android:layout_height="35dp"
            android:layout_alignParentEnd="true"
            android:layout_alignParentRight="true"
            android:layout_gravity="end"
            android:layout_marginEnd="6dp"
            android:layout_marginRight="6dp"
            android:src="@drawable/ic_baseline_description_24" />
    </RelativeLayout>
```

```
    <View
        android:layout_width="match_parent"
        android:layout_height="1dp"
        android:layout_marginTop="10dp"
        android:layout_marginBottom="10dp"
        android:background="@android:color/darker_gray" />
```

```
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Current Date Time:"
        android:textSize="25sp"
    />
```

```
    <TextClock
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:format12Hour="hh:mm:ss a MMM,dd yyyy"
    />
```

```
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```
        android:text="Alarm:"
        android:textSize="25sp"
    />
<TextView
    android:layout_width="wrap_content"
    android:text="Set Alarm"
    android:textSize="25sp"
    android:id="@+id/set_alarm_text"
    android:layout_height="wrap_content"
/>

</LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:layout_width="300dp"
    android:layout_height="200dp"
    android:layout_gravity="center"
    android:layout_marginTop="30dp"
    android:background="@color/white"
    app:cardElevation="20dp"
    android:padding="20dp"
    app:cardCornerRadius="10dp">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        android:padding="20dp">

        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:orientation="horizontal">

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginEnd="122dp"
                android:layout_marginRight="122dp"
                android:text="Description"
                android:textColor="@color/black"
                android:textSize="20sp"
```

```
    android:textStyle="bold">></TextView>

    <ImageView
        android:layout_width="35dp"
        android:layout_height="35dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_gravity="end"
        android:layout_marginEnd="6dp"
        android:layout_marginRight="6dp"
        android:src="@drawable/ic_baseline_description_24" />
</RelativeLayout>

<View
    android:layout_width="match_parent"
    android:layout_height="1dp"
    android:layout_marginTop="10dp"
    android:layout_marginBottom="10dp"
    android:background="@android:color/darker_gray" />

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textSize="15sp"
    android:text="Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor
incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris
nisi ut aliquip ex ea commodo consequat.">
    <br/>
</TextView>

</LinearLayout>
</androidx.cardview.widget.CardView>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_gravity="bottom"
    android:layout_marginTop="-150dp"
    android:layout_marginBottom="-100dp">
    <br/>
    <ImageView
        android:layout_width="match_parent"
        android:layout_height="400dp"
        android:src="@drawable/ic_wave_svg"
        android:layout_gravity="bottom" />

```

```
>
</LinearLayout>

</LinearLayout>

</LinearLayout>

</ScrollView>

<com.google.android.material.bottomnavigation.BottomNavigationView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/bottom_navigation"
    android:layout_alignBottom="@+id/scrollView"
    android:layout_alignParentBottom="true"
    app:menu="@menu/bottom_menu"

/>

</RelativeLayout>
```

DashBoardActivity.kt:

```
package com.example.practical10_20012532001

import android.app.AlarmManager
import android.app.PendingIntent
import android.app.TimePickerDialog
import android.content.Intent
import android.graphics.Color
import android.graphics.drawable.AnimationDrawable
import android.media.Image
import android.os.Build
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.view.View
import android.view.WindowManager
import android.widget.ImageView
import android.widget.TextView
import android.widget.Toast
import com.google.android.material.bottomnavigation.BottomNavigationView
import java.text.SimpleDateFormat
import java.util.*

class DashBoardActivity : AppCompatActivity() {
    private lateinit var setAlarmText: TextView
    override fun onCreate(savedInstanceState: Bundle?) {
```

```
super.onCreate(savedInstanceState)
setContentView(R.layout.activity_dash_board)

setStatusBarTransparent()

val name = findViewById<TextView>(R.id.name)
val email = findViewById<TextView>(R.id.email)
val email1 = findViewById<TextView>(R.id.email1)
val username = findViewById<TextView>(R.id.username)
val number = findViewById<TextView>(R.id.number)
val city = findViewById<TextView>(R.id.city)
val logout = findViewById<TextView>(R.id.logout)
setAlarmText = findViewById(R.id.set_alarm_text)
val bottomMenu = findViewById<BottomNavigationView>(R.id.bottom_navigation)
val slider = findViewById<ImageView>(R.id.slider_image)
val heart_slider = findViewById<ImageView>(R.id.heart)

slider.setBackgroundResource(R.drawable.slider_animation)
heart_slider.setBackgroundResource(R.drawable.heart_animation)

val animation : AnimationDrawable = slider.background as AnimationDrawable
animation.start()

val heartAnim : AnimationDrawable = heart_slider.background as AnimationDrawable
heartAnim.start()

bottomMenu.setOnItemSelectedListener {
    when(it.itemId){
        R.id.dashboard -> {
            Intent(this,DashBoardActivity::class.java).apply {
                startActivity(this)
            }
            return@setOnItemSelectedListener true
        }
        R.id.notes -> {
            Intent(this,NotesListActivity::class.java).apply {
                startActivity(this)
            }
            return@setOnItemSelectedListener true
        }
        else -> {
            return@setOnItemSelectedListener true
        }
    }
}
```

```
logout.setOnClickListener {
    Intent(this, MainActivity::class.java).apply {
        startActivity(this)
    }
}

val data: LoginInfo? = intent.extras?.getSerializable("user_data") as? LoginInfo

if(data != null){
    name.text = data.getUsername()
    username.text = data.getUsername()
    email.text = data.getEmail()
    number.text = data.getPhone().toString()
    city.text = data.getCity()
    email1.text = data.getEmail()
}

setAlarmText.setOnClickListener {
    timePicker.visibility = View.VISIBLE
    showTimerDialog()
}

private fun setAlarm(millisTime: Long, str: String)
{
    val intent = Intent(this, MyReceiver::class.java)
    intent.putExtra("Service1", str)
    val pendingIntent = PendingIntent.getBroadcast(applicationContext, 234324243, intent, 0)
    val alarmManager = getSystemService(ALARM_SERVICE) as AlarmManager
    if(str == "Start"){
        alarmManager.setExact(
            AlarmManager.RTC_WAKEUP,
            millisTime,
            pendingIntent
        )
    }else if(str == "Stop"){
        alarmManager.cancel(pendingIntent)
    }
}

private fun showTimerDialog()
{
    val cldr: Calendar = Calendar.getInstance()
```

```
val hour: Int = cldr.get(Calendar.HOUR_OF_DAY)
val minutes: Int = cldr.get(Calendar.MINUTE)
//time picker dialog
val picker = TimePickerDialog(
    this,
    { _, sHour, sMinute -> sendDialogDataToActivity(sHour, sMinute) },
    hour,
    minutes,
    false
)
picker.show()

private fun sendDialogDataToActivity(hour: Int, minute: Int) {
    val alarmCalendar = Calendar.getInstance()
    val year: Int = alarmCalendar.get(Calendar.YEAR)
    val month: Int = alarmCalendar.get(Calendar.MONTH)
    val day: Int = alarmCalendar.get(Calendar.DATE)
    alarmCalendar.set(year, month, day, hour, minute, 0)
    setAlarmText.text = SimpleDateFormat("hh:mm:ss a").format(alarmCalendar.time)
    setAlarm(alarmCalendar.timeInMillis, "Start")
    Toast.makeText(
        this,
        "Time: hours:$hour, minutes:$minute, millis:$alarmCalendar.timeInMillis",
        Toast.LENGTH_SHORT
    ).show()
}

private fun setWindowFlag(flagTranslucentStatus: Int, b: Boolean) {
    val winParameters = window.attributes
    if(b){
        winParameters.flags = winParameters.flags or flagTranslucentStatus
    }
    else{
        winParameters.flags = winParameters.flags and flagTranslucentStatus.inv()
    }
    window.attributes = winParameters
}

private fun setStatusBarTransparent(){
    if (Build.VERSION.SDK_INT in 19..20) {
        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.KITKAT) {
            setWindowFlag(WindowManager.LayoutParams.FLAG_TRANSLUCENT_STATUS, true)
        }
    }
}
```

```
}  
if (Build.VERSION.SDK_INT >= 19) {  
    window.decorView.systemUiVisibility = View.SYSTEM_UI_FLAG_LAYOUT_STABLE or  
View.SYSTEM_UI_FLAG_LAYOUT_FULLSCREEN  
}  
  
if (Build.VERSION.SDK_INT >= 21){  
    setWindowFlag(WindowManager.LayoutParams.FLAG_TRANSLUCENT_STATUS, false)  
    window.statusBarColor = Color.TRANSPARENT  
}  
}  
}
```

Notes.kt:

```
package com.example.practical_10_20012532001  
  
import java.io.Serializable  
class Notes(  
    private var id: Int,  
    private var title: String,  
    private var subTitle: String,  
    private var description: String,  
    private var modifiedTime: String,  
    private var isReminder: Boolean,  
    private var reminderTime: String  
    : Serializable {  
  
    private lateinit var hours: String  
    private lateinit var minutes: String  
    private lateinit var ampm: String  
  
    companion object{  
        var idNote = 0  
        fun noteIdGeneration():Int  
        {  
            idNote++  
            return idNote  
        }  
    }  
  
    fun setId(id:Int){  
        this.id = id  
    }  
    fun getId():Int{  
        return this.id  
    }  
}
```

```
}

@JvmName("getTitle1")
fun getTitle():String{
    return this.title
}
fun setTitle(title: String){
    this.title = title
}
@JvmName("getSubTitle1")
fun getSubTitle():String{
    return this.subTitle
}
fun setSubTitle(subTitle: String){
    this.subTitle = subTitle
}
@JvmName("getDescription1")
fun getDescription():String{
    return this.description
}
fun setDescription(description: String){
    this.description = description
}
@JvmName("getModifiedTime1")
fun getModifiedTime():String{
    return this.modifiedTime
}
fun setModifiedTime(modifiedTime: String){
    this.modifiedTime = modifiedTime
}
fun getIsReminder():Boolean{
    return this.isReminder
}
fun setIsReminder(isReminder: Boolean){
    this.isReminder = isReminder
}
@JvmName("getReminderTime1")
fun getReminderTime():String{
    return this.reminderTime
}
fun setReminderTime(reminderTime: String){
    this.reminderTime = reminderTime
}
fun getHours():String{
    return this.hours
}
fun setHours(hours: String){
```

```
    this.hours = hours
}
fun getMinutes():String{
    return this.minutes
}
fun setMinutes(minutes: String){
    this.minutes = minutes
}
fun getAMPM():String{
    return this.ampm
}
fun setAMPM(ampm:String){
    this.ampm = ampm
}
```

activity_notes_list.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"
    android:orientation="vertical"
    android:id="@+id/notes_list"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".NotesListActivity">

    <View
        android:layout_width="wrap_content"
        android:layout_height="160dp"
        android:background="@drawable/ic_wave_2"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintVertical_bias="0"
        android:elevation="-1dp"
        app:layout_constraintBottom_toBottomOf="@+id/listView"
        android:id="@+id/wave_upper"
    />

    <ImageView
        android:layout_width="match_parent"
        android:layout_height="150dp"
        android:id="@+id/image_slider"
        app:layout_constraintTop_toTopOf="parent"
```

```
    app:layout_constraintVertical_bias="0.1"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintBottom_toTopOf="@+id/wave_down"
/>
```

```
<ListView
    android:id="@+id/listView"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    app:layout_constraintTop_toBottomOf="@+id/image_slider"
    app:layout_constraintBottom_toTopOf="@+id/bottom_navigation"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    android:divider="#00FFFFFF"
    android:background="#00FFFFFF"
    android:gravity="center"
    android paddingRight="10dp"
    android paddingLeft="10dp"
    android dividerHeight="15dp"
    android paddingTop="200dp"
    android paddingBottom="65dp" >

</ListView>
```

```
<View
    android:layout_width="wrap_content"
    android:layout_height="140dp"
    android:background="@drawable/ic_wave_svg"
    app:layout_constraintBottom_toBottomOf="@+id/bottom_navigation"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="1"
    android:elevation="-1dp"
    android:layout_marginBottom="40dp"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    android:id="@+id/wave_down"
/>
```

```
<com.google.android.material.bottomnavigation.BottomNavigationView
    android:id="@+id/bottom_navigation"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:elevation="70dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
```

```
    app:layout_constraintStart_toStartOf="parent"
    app:menu="@menu/bottom_menu" />

<com.google.android.material.floatingactionbutton.FloatingActionButton
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/floating_action_btn"
    android:tint="@color/white"
    android:src="@drawable/ic_baseline_add_24"
    android:layout_marginBottom="70dp"
    android:layout_marginEnd="2dp"
    android:backgroundTint="#DF62A4"
    android:enabled="true"
    android:clickable="true"
    android:elevation="60dp"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintBottom_toBottomOf="parent"
    android:focusable="true" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

NotesListActivity.kt:

```
package com.example.practical_10_20012532001

import android.app.AlarmManager
import android.app.Dialog
import android.app.PendingIntent
import android.content.ClipData
import android.content.Context
import android.content.DialogInterface
import android.content.Intent
import android.graphics.Color
import android.graphics.drawable.AnimationDrawable
import android.os.Build
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.view.LayoutInflater
import android.view.MenuItem
import android.view.View
import android.view.WindowManager
import android.widget.*
import androidx.annotation.RequiresApi
import androidx.appcompat.app.AlertDialog
import com.google.android.material.bottomnavigation.BottomNavigationView
import com.google.android.material.floatingactionbutton.FloatingActionButton
import java.text.SimpleDateFormat
```

```
import java.util.*  
import kotlin.collections.ArrayList  
  
class NotesListActivity : AppCompatActivity() {  
    companion object{  
        lateinit var listView: ListView  
        lateinit var arrayList: ArrayList<Notes>  
        lateinit var adapter: NotesAdapter  
        fun  
editItem(title:String, subTitle:String, description:String, modifiedTime:String, isReminder:Boolean, reminderTime:St  
ring, id:Int){  
    for(i in 0 until arrayList.size){  
        if(arrayList[i].getId() == id){  
            arrayList[i].setIsReminder(isReminder)  
            arrayList[i].setReminderTime(reminderTime)  
            arrayList[i].setTitle(title)  
            arrayList[i].setSubTitle(subTitle)  
            arrayList[i].setDescription(description)  
            arrayList[i].setModifiedTime(modifiedTime)  
            adapter.notifyDataSetChanged()  
        }  
    }  
}  
}  
}  
fun deleteItem(id: Int){  
    for(i in 0 until arrayList.size){  
        if(arrayList[i].getId() == id){  
            arrayList.removeAt(i)  
            adapter.notifyDataSetChanged()  
            return  
        }  
    }  
}  
}  
fun getNoteItem(id: Int): Notes? {  
    for(i in 0 until arrayList.size){  
        if(arrayList[i].getId() == id){  
            return arrayList[i]  
        }  
    }  
    return null  
}  
}  
@RequiresApi(Build.VERSION_CODES.M)  
override fun onCreate(savedInstanceState: Bundle?) {  
    super.onCreate(savedInstanceState)  
    setContentView(R.layout.activity_notes_list)  
    setStatusBarTransparent()  
}
```

```
val slider = findViewById<ImageView>(R.id.image_slider)
slider.setBackgroundResource(R.drawable.slider_animation)

val animation : AnimationDrawable = slider.background as AnimationDrawable
animation.start()

val bottomMenu = findViewById<BottomNavigationView>(R.id.bottom_navigation)
listView = findViewById(R.id.listView)
val fButton = findViewById<FloatingActionButton>(R.id.floating_action_btn)

bottomMenu.selectedItemId = R.id.notes

arrayList = ArrayList()
adapter = NotesAdapter(this, arrayList)

listView.adapter = adapter

fButton.setOnClickListener {
    val boxView = LayoutInflater.from(this).inflate(R.layout.form_view, null)
    val alertDialog = AlertDialog.Builder(this).setView(boxView)

    val titleText = boxView.findViewById<TextView>(R.id.form_title)
    val subTitleText = boxView.findViewById<TextView>(R.id.form_sub_title)
    val descriptionText = boxView.findViewById<TextView>(R.id.form_description)
    val timePicker = boxView.findViewById<TimePicker>(R.id.form_time_picker)
    val switch = boxView.findViewById<Switch>(R.id.form_switch)

    alertDialog.apply {
        setTitle("Add Note here..")
        var isReminder = false

        switch.setOnClickListener {
            isReminder = !isReminder
        }

        setPositiveButton("Add") { dialogInterface: DialogInterface, i: Int ->
            val alarmCalendar = Calendar.getInstance()
            val year: Int = alarmCalendar.get(Calendar.YEAR)
            val month: Int = alarmCalendar.get(Calendar.MONTH)
            val day: Int = alarmCalendar.get(Calendar.DATE)

            val time = SimpleDateFormat("MMM, dd yyyy hh:mm:ss a").format(alarmCalendar.time)
            var reminderTime = ""
        }
    }
}
```

```
    if(isReminder){
        alarmCalendar.set(year, month, day, timePicker.hour, timePicker.minute, 0)

        reminderTime = SimpleDateFormat('MMM, dd yyyy hh:mm:ss a').format(alarmCalendar.time)
    }

    val newItem =
Notes(Notes.noteIdGeneration(),titleText.text.toString(),subTitleText.text.toString(),descriptionText.text.toString(),
),time,isReminder,reminderTime)

    newItem.setHours(alarmCalendar.get(Calendar.HOUR).toString())
    newItem.setMinutes(alarmCalendar.get(Calendar.MINUTE).toString())
    newItem.setAMPM(alarmCalendar.get(Calendar.AM_PM).toString())

    arrayList.add(newItem)

}

if(isReminder) {
    setAlarm(alarmCalendar.timeInMillis, "Start", newItem.getId())
}
adapter.notifyDataSetChanged()
}

setNegativeButton("Cancel"){ dialogInterface: DialogInterface, i: Int ->
    Toast.makeText(applicationContext,"Canceled",Toast.LENGTH_SHORT).show()
}
.show()
}

bottomMenu.setOnItemSelectedListener{
when(it.itemId){
    R.id.dashboard -> {
        Intent(this,DashBoardActivity::class.java).apply{
            startActivity(this)
        }
        return@setOnItemSelectedListener true
    }
    R.id.notes -> {
        Intent(this,NotesListActivity::class.java).apply{
            startActivity(this)
        }
        return@setOnItemSelectedListener true
    }
    else -> {
        return@setOnItemSelectedListener true
    }
}
```

```
}

}

private fun setAlarm(millisTime: Long, str: String,id:Int)
{
    val intent = Intent(this, MyReceiver::class.java)
    intent.putExtra("Service1", str)
    val intentService = Intent(this,AlarmService::class.java)
    intentService.putExtra("id",id)

    val pendingIntent = PendingIntent.getBroadcast(this@NotesListActivity, 234324243, intent, 0)
    val pendingIntentService = PendingIntent.getService(this@NotesListActivity, 234324244, intentService, 0)

    val alarmManager = getSystemService(ALARM_SERVICE) as AlarmManager

    if(str == "Start"){
        alarmManager.setExact(
            AlarmManager.RTC_WAKEUP,
            millisTime,
            pendingIntent
        )
        alarmManager.setExact(
            AlarmManager.RTC_WAKEUP,
            millisTime,
            pendingIntentService
        )
    }else if(str == "Stop"){
        alarmManager.cancel(pendingIntent)
    }
}

private fun setWindowFlag(flagTranslucentStatus: Int, b: Boolean) {
    val winParameters = window.attributes
    if(b){
        winParameters.flags = winParameters.flags or flagTranslucentStatus
    }
    else{
        winParameters.flags = winParameters.flags and flagTranslucentStatus.inv()
    }
    window.attributes = winParameters
}

private fun setStatusBarTransparent(){
    if (Build.VERSION.SDK_INT in 19..20){
```

```
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.KITKAT) {
    setWindowFlag(WindowManager.LayoutParams.FLAG_TRANSLUCENT_STATUS, true)
}
}
if (Build.VERSION.SDK_INT >= 19) {
    window.decorView.systemUiVisibility = View.SYSTEM_UI_FLAG_LAYOUT_STABLE or
View.SYSTEM_UI_FLAG_LAYOUT_FULLSCREEN
}
}

if (Build.VERSION.SDK_INT >= 21) {
    setWindowFlag(WindowManager.LayoutParams.FLAG_TRANSLUCENT_STATUS, false)
    window.statusBarColor = Color.TRANSPARENT
}
}
```

NotesAdapter.kt:

```
package com.example.practical_10_20012532001
```

```
import android.content.Context
import android.content.DialogInterface
import android.os.Build
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.*
import androidx.annotation.RequiresApi
import androidx.appcompat.app.AlertDialog
import java.text.SimpleDateFormat
import java.util.*
```

```
class NotesAdapter(private val context: Context, private val arrayList: ArrayList<Notes>):  
BaseAdapter()
```

```
private lateinit var title: TextView
private lateinit var subTitle: TextView
private lateinit var description: TextView
private lateinit var reminderTime: TextView
private lateinit var modifiedTime: TextView
private var isReminder: Boolean = false
private lateinit var editBtn: ImageButton
private lateinit var deleteBtn: ImageButton
```

```
override fun getCount(): Int {
```

```
    return arrayList.size
}

override fun getItem(position: Int): Any {
    return position
}

override fun getItemId(position: Int): Long {
    return position.toLong()
}

@RequiresApi(Build.VERSION_CODES.M)
override fun getView(position: Int, convertView: View?, parent: ViewGroup?): View {
    val convertView: View? = LayoutInflater.from(context).inflate(R.layout.item_box, parent, false)
    this.title = convertView!!.findViewById(R.id.textViewTitle)
    this.subTitle = convertView.findViewById(R.id.textViewSubTitle)
    this.description = convertView.findViewById(R.id.textViewDescription)
    this.reminderTime = convertView.findViewById(R.id.reminder_time)
    this.modifiedTime = convertView.findViewById(R.id.time)
    this.editBtn = convertView.findViewById(R.id.edit_btn)
    this.deleteBtn = convertView.findViewById(R.id.delete_btn)

    this.title.text = arrayList[position].getTitle()
    this.subTitle.text = arrayList[position].getSubTitle()
    this.description.text = arrayList[position].getDescription()
    this.reminderTime.text = arrayList[position].getReminderTime()
    this.modifiedTime.text = arrayList[position].getModifiedTime()
    this.isReminder = arrayList[position].getIsReminder()

    this.editBtn.setOnClickListener {
        val boxView = LayoutInflater.from(context).inflate(R.layout.form_view, null)
        val alertDialog = AlertDialog.Builder(context).setView(boxView)

        val titleText = boxView.findViewById<TextView>(R.id.form_title)
        val subTitleText = boxView.findViewById<TextView>(R.id.form_sub_title)
        val descriptionText = boxView.findViewById<TextView>(R.id.form_description)
        val timePicker = boxView.findViewById<TimePicker>(R.id.form_time_picker)
        var switch = boxView.findViewById<Switch>(R.id.form_switch)

        alertDialog.apply {
            setTitle("Edit Note here..")

            titleText.text = arrayList[position].getTitle()
            subTitleText.text = arrayList[position].getSubTitle()
            descriptionText.text = arrayList[position].getDescription()
        }
    }
}
```

```
timePicker.minute = arrayList[position].getMinutes().toInt()

if(arrayList[position].getAMPM()=='1')
    timePicker.hour = 12 + arrayList[position].getHours().toInt()
}
else{
    timePicker.hour = arrayList[position].getHours().toInt()
}

switch.isChecked = isReminder

switch.setOnClickListener {
    isReminder = isReminder
}

setPositiveButton("Update") { dialogInterface: DialogInterface, i: Int ->
    val alarmCalendar = Calendar.getInstance()

    val year: Int = alarmCalendar.get(Calendar.YEAR)
    val month: Int = alarmCalendar.get(Calendar.MONTH)
    val day: Int = alarmCalendar.get(Calendar.DATE)
    val time = SimpleDateFormat("MMM, dd yyyy hh:mm:ss a").format(alarmCalendar.time)

    alarmCalendar.set(year,month,day,timePicker.hour,timePicker.minute)
}
```

```
NotesListActivity.editItem(
    titleText.text.toString(),
    subTitleText.text.toString(),
    descriptionText.text.toString(),
    time.toString(),
    isReminder,
    SimpleDateFormat("MMM, dd yyyy hh:mm:ss a").format(alarmCalendar.time),
    arrayList[position].getId()
)
Toast.makeText(context,"Note Updated!",Toast.LENGTH_SHORT).show()

}
setNegativeButton("Cancel"){ dialogInterface: DialogInterface, i: Int ->
    Toast.makeText(context,"Canceled",Toast.LENGTH_SHORT).show()
}
}.show()

this.deleteBtn.setOnClickListener {
```

```
}

return convertView
}

form_view.xml:
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:app="http://schemas.android.com/apk/res-auto">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        android:padding="20dp"
        >

        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginBottom="20dp"
            app:startIconDrawable="@drawable/ic_baseline_event_note_24">

            <com.google.android.material.textfield.TextInputEditText
                android:id="@+id/form_title"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginTop="20dp"
                android:hint="Note Title"
                />

        </com.google.android.material.textfield.TextInputLayout>

        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginBottom="20dp"
            app:startIconDrawable="@drawable/ic_baseline_event_note_24">
```

```
<com.google.android.material.textfield.TextInputLayout
    android:id="@+id/form_sub_title"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:hint="Note Subtitle" />

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="20dp"
    app:startIconDrawable="@drawable/ic_baseline_event_note_24">

    <com.google.android.material.textfield.TextInputEditText
        android:id="@+id/form_description"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:hint="Note Description" />

</com.google.android.material.textfield.TextInputLayout>

<Switch
    android:layout_gravity="right"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Set Reminder"
    android:id="@+id/form_switch"
    />

<TimePicker
    android:id="@+id/form_time_picker"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"/>

</LinearLayout>

</ScrollView>
```

```
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
android:layout_marginBottom="20dp"
android:layout_height="wrap_content"

<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:backgroundTint="#1B1A1A"
    app:cardCornerRadius="10dp"
    >

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="15dp"
        >

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/textViewTitle"
            android:textSize="20sp"
            android:text="title"
            android:textColor="@color/white"/>
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="subtitle"
            android:textColor="#4A4444"
            android:id="@+id/textViewSubTitle"
            android:textSize="16sp"/>
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/textViewDescription"
            android:textSize="10sp"
            android:text="description"
            android:textColor="#5C5353"/>
        />
    <androidx.constraintlayout.widget.ConstraintLayout
        android:layout_marginTop="20dp"
        android:layout_marginBottom="10dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
```

```
    android:orientation="horizontal"
    >

    <TextView
        android:id="@+id/time"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Time"
        android:textColor="#5C5353"
        android:textSize="10sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toStartOf="@+id/delete_btn"
        app:layout_constraintHorizontal_bias="0.006"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <ImageButton
        android:id="@+id/edit_btn"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:backgroundTint="#00FFFFFF"
        app:tint="#00FF00"
        android:clickable="true"
        android:src="@drawable/ic_baseline_edit_24"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toStartOf="@+id/delete_btn"
        app:layout_constraintHorizontal_bias="0.85"
        app:layout_constraintStart_toEndOf="@+id/time"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.0" />

    <ImageButton
        android:id="@+id/delete_btn"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:backgroundTint="#00FFFFFF"
        android:layout_marginEnd="16dp"
        android:clickable="true"
        app:tint="#FF0000"
        android:src="@drawable/ic_baseline_delete_24"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.0" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
<TextView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textColor="#5C5353"
    android:text="Reminder Time"
    android:textSize="10sp"
    android:id="@+id/reminder_time"
/>
</LinearLayout>

</androidx.cardview.widget.CardView>
</LinearLayout>
```

MyReceiver.kt:

```
package com.example.practical_10_20012532001

import android.content.BroadcastReceiver
import android.content.Context
import android.content.Intent
import android.media.MediaPlayer

class MyReceiver : BroadcastReceiver() {
    var mp: MediaPlayer? = null
    override fun onReceive(context: Context?, intent: Intent?) {
        mp = MediaPlayer.create(context, R.raw.alarm)
        mp?.start()
    }
}
```

AlarmService.kt:

```
package com.example.practical_10_20012532001

import android.app.Service
import android.content.Intent
import android.media.MediaPlayer
import android.os.IBinder
import android.widget.Toast

class AlarmService : Service() {

    val PERSONAL_CHANNEL_ID = "PersonalChannel"

    override fun onStartCommand(intent: Intent?, flags: Int, startId: Int): Int {
        if(intent!=null) {
```

```
val id: Int? = intent.getIntExtra("id", 0)

Toast.makeText(applicationContext, id.toString(), Toast.LENGTH_SHORT).show()

val data: Notes? = NotesListActivity.getNoteItem(id!!)

if (data != null) {
    val notificationUtils = NotificationUtils(applicationContext)
    notificationUtils.createChannel(PERSONAL_CHANNEL_ID, "PERSONAL")
    notificationUtils.sendNotificationInDefaultChannel(
        data,
        101
    )
}

return START_STICKY
}

override fun onDestroy() {
    super.onDestroy()
}

override fun onBind(intent: Intent?): IBinder? {
    TODO("Not yet implemented")
}
```

NotificationUtils.kt:

```
package com.example.practical_10_20012532001
```

```
import android.R
import android.app.Notification
import android.app.NotificationChannel
import android.app.NotificationManager
import android.app.PendingIntent
import android.content.Context
import android.content.ContextWrapper
import android.content.Intent
import android.graphics.Color
import android.media.RingtoneManager
import android.os.Build
import androidx.core.app.NotificationCompat

class NotificationUtils(context: Context) : ContextWrapper(context) {
    private var notificationManager: NotificationManager? = null
```

```
private get() {
    if (field == null) {
        field = getSystemService(NOTIFICATION_SERVICE) as NotificationManager
    }
    return field
}
var DEFAULT_CHANNEL_ID = "DEFAULT"
var DEFAULT_CHANNEL_NAME = "DEFAULT CHANNEL"
var pkgName = "notification.channel"
fun createChannel(CHANNEL_ID: String?, CHANNEL_NAME: String?) {
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
        // create android channel
        val newChannel = NotificationChannel(
            CHANNEL_ID,
            CHANNEL_NAME, NotificationManager.IMPORTANCE_HIGH
        )
        // Sets whether notifications posted to this channel should display notification lights
        newChannel.enableLights(true)
        // Sets whether notification posted to this channel should vibrate.
        newChannel.enableVibration(true)
        // Sets the notification light color for notifications posted to this channel
        newChannel.lightColor = Color.GREEN
        // Sets whether notifications posted to this channel appear on the lockscreen or not
        newChannel.lockscreenVisibility = Notification.VISIBILITY_PRIVATE
        notificationManager!!.createNotificationChannel(newChannel)
    }
}

fun sendNotificationInChannel(
    notificationId: Int, resultIntent: Intent?,
    builder: NotificationCompat.Builder
) {
    val pi = PendingIntent.getActivity(
        this,
        0,
        resultIntent,
        PendingIntent.FLAG_UPDATE_CURRENT
    )
    // for notification click action, also required on Gingerbread and below
    builder.setContentIntent(pi)
    notificationManager!!.notify(notificationId, builder.build())
}

fun sendNotificationInDefaultChannel(note: Notes, notificationId: Int) {
```

```
val resultIntent = Intent(this, NotificationActivity::class.java)
resultIntent.putExtra("note", note)
sendNotificationInChannel(
    notificationId, resultIntent,
    getDefaultNotificationBuilder(note,DEFAULT_CHANNEL_ID)
)
}

private fun getDefaultNotificationBuilder(
    note:Notes,
    channelId: String
): NotificationCompat.Builder {
    val defaultSoundUri = RingtoneManager.getDefaultUri(RingtoneManager.TYPE_NOTIFICATION)
    return NotificationCompat.Builder(
        applicationContext,
        channelId
    )
        .setDefaults(Notification.DEFAULT_ALL)
        .setSmallIcon(R.drawable.stat_notify_more)
        .setTicker("Practical-9 TODO 20012022003-MIHIR")
        .setContentTitle(note.getTitle())
        .setContentText(note.getSubTitle())
        .setAutoCancel(true)
}
init {
    pkgName =
        if (context.packageName != null)
            context.packageName
        else
            packageName
    DEFAULT_CHANNEL_ID = pkgName + "." + DEFAULT_CHANNEL_ID.toUpperCase()
    createChannel(DEFAULT_CHANNEL_ID, DEFAULT_CHANNEL_NAME)
}
```

activity_notification.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"
    android:padding="8dp"
    android:id="@+id/notification_activity"
    tools:context=".NotificationActivity">
```

```
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:backgroundTint="#1B1A1A"
    app:cardCornerRadius="10dp"
    >

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="15dp"
        >

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/notificationtextViewTitle"
            android:textSize="20sp"
            android:text="title"
            android:textColor="@color/white"/>
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="subtitle"
            android:textColor="#4A4444"
            android:id="@+id/notificationtextViewSubTitle"
            android:textSize="16sp"/>
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/notificationtextViewDescription"
            android:textSize="10sp"
            android:text="description"
            android:textColor="#5C5353"
            />
        <TextView
            android:id="@+id/notificationtime"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Time"
            android:textColor="#5C5353"
            android:textSize="10sp"/>
        <TextView
            android:layout_width="wrap_content"
```

```
        android:textColor="#5C5353"
        android:text="Reminder Time"
        android:textSize="10sp"
        android:id="@+id/notificationreminder_time"
    />
</LinearLayout>

</androidx.cardview.widget.CardView>

</androidx.constraintlayout.widget.ConstraintLayout>
```

NotificationActivity.kt:

```
package com.example.practical_10_20012532001

import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.view.MenuItem
import android.widget.ImageButton
import android.widget.TextView
import android.widget.Toast

class NotificationActivity : AppCompatActivity() {
    private lateinit var title : TextView
    private lateinit var subTitle : TextView
    private lateinit var description : TextView
    private lateinit var reminderTime : TextView
    private lateinit var modifiedTime : TextView
    private var isReminder : Boolean = false
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_notification)

        val note = (intent.extras?.getSerializable("note") as? Notes)!!

        this.title = findViewById(R.id.notificationtextViewTitle)
        this.subTitle = findViewById(R.id.notificationtextViewSubTitle)
        this.description = findViewById(R.id.notificationtextViewDescription)
        this.reminderTime = findViewById(R.id.notificationreminder_time)
        this.modifiedTime = findViewById(R.id.notificationtime)

        supportActionBar?.setDisplayHomeAsUpEnabled(true)
```

```
if(note!=null){
    supportActionBar?.title = "Reminder Of ${note.getTitle()}"
    this.title.text = note.getTitle()
    this.subTitle.text = note.getSubTitle()
    this.description.text = note.getDescription()
    this.reminderTime.text = note.getReminderTime()
    this.modifiedTime.text = note.getModifiedTime()
    this.isReminder = note.getIsReminder()
}

} else{
    supportActionBar?.title = "Reminder Of TODO"
    title.text = "Note Has been Deleted!"
}
}

override fun onContextItemSelected(item: MenuItem): Boolean {
    when (item.itemId) {
        R.id.notification_activity->{
            finish()
            return true
        }
    }
    return super.onContextItemSelected(item)
}
```

bottom_menu.xml:

```
<?xml version="1.0" encoding="utf- 8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">

<item
    android:id="@+id/dashboard"
    android:enabled="true"
    android:visible="true"
    android:iconTint="@color/white"
    android:icon="@drawable/ic_baseline_dashboard_24"
    android:title="Dashboard"
/>
<item
    android:id="@+id/notes"
    android:enabled="true"
    android:visible="true"
    android:iconTint="@color/white"
    android:icon="@drawable/ic_baseline_event_note_24"
    android:title="Notes"
/>
```

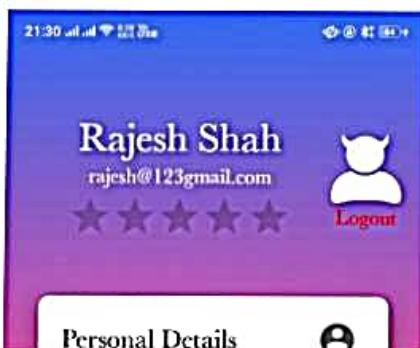
Themes.xml:

```
<resources xmlns:tools="http://schemas.android.com/tools">
    <!-- Base application theme. -->
    <style name="Theme.Practical_10_20012532001"
        parent="Theme.MaterialComponents.DayNight.NoActionBar">
        <!-- Primary brand color. -->
        <item name="colorPrimary">@color/purple_500</item>
        <item name="colorPrimaryVariant">@color/purple_700</item>
        <item name="colorOnPrimary">@color/white</item>
        <!-- Secondary brand color. -->
        <item name="colorSecondary">@color/teal_200</item>
        <item name="colorSecondaryVariant">@color/teal_700</item>
        <item name="colorOnSecondary">@color/black</item>
        <!-- Status bar color. -->
        <item name="android:statusBarColor" tools:targetApi="l">?attr/colorPrimaryVariant</item>
        <!-- Customize your theme here. -->
    </style>

    <style name="Theme.Practical_10_20012532001ActionBar"
        parent="Theme.MaterialComponents.DayNight.DarkActionBar">
        <!-- Primary brand color. -->
        <item name="colorPrimary">@color/purple_500</item>
        <item name="colorPrimaryVariant">@color/purple_700</item>
        <item name="colorOnPrimary">@color/white</item>
        <!-- Secondary brand color. -->
        <item name="colorSecondary">@color/teal_200</item>
        <item name="colorSecondaryVariant">@color/teal_700</item>
        <item name="colorOnSecondary">@color/black</item>
        <!-- Status bar color. -->
        <item name="android:statusBarColor" tools:targetApi="l">?attr/colorPrimaryVariant</item>
        <!-- Customize your theme here. -->
    </style>
```

Output:





This block contains two screenshots. The left one, titled "Photos", shows a building image with a heart icon. The right one, titled "Set Alarm Time", shows a digital clock set to 9:31 AM with a numeric keypad for setting hours and minutes.





Set Alarm Time



Current Date Time:

21:31

Alarm:

09:31:00 pm

Description



Lore ipsum dolor sit amet,
consectetur adipiscing elit, sed do
eiusmod tempor incididunt ut labore
et dolore magna aliqua. Ut enim
ad minim veniam, quis nostrud



Dashboard



Notes



21:38 4G WiFi 40% 10:38

Add Note here..

Note Title

Note Subtitle

Note Description

Set Reminder

9:38 AM

11 12 1
10 2

CANCEL ADD

Dashboard Notes

21:38 4G WiFi 40% 10:38

Add Note here..

Note Title college

Note Subtitle assignment

Note Description submit assignment

Set Reminder

9:38 AM

11 12 1
10 2

CANCEL ADD

Dashboard Notes

