

1. Creating Hello World Application

1. Click **Start** 🚩 **Android Studio**, a **Welcome to Android Studio** dialog box will appear. Click **New Project**, the **New Project Dialog box** appears.
2. Choose **Empty Views Activity** then click **Next**.
3. Specify the **Name** of your project, Select the **Language** as **Java**. Click **Finish** Button.

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" tools:context=".MainActivity">

<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Hello World!"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
android:textSize="30dp"/>

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

MainActivity.java

```
package com.example.helloworldapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

OUTPUT:


12:24



Hello World!



2. Creating an application that displays message based on the screen orientation.

1. Click **Start**  **Android Studio**, a **Welcome to Android Studio** dialog box will appear. Click **New Project**, the **New Project Dialog box** appears.
2. Choose **Empty Views Activity** then click **Next**.
3. Specify the **Name** of your project, Select the **Language** as **Java**. Click **Finish** Button.

activity_main.xml

```
<RelativeLayout 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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <Button android:id="@+id/por"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Portrait"
        android:layout_centerInParent="true"/>

    <Button android:id="@+id/lan"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Landscape"
        android:layout_below="@id/por"
        android:layout_centerInParent="true"/>

</RelativeLayout>
```

MainActivity.java

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

        Button l,p;
        l=findViewById(R.id.lan);
        p=findViewById(R.id.por);
        l.setOnClickListener(new View.OnClickListener() {

            @Override public void onClick(View v) {
                setRequestedOrientation(ActivityInfo.SCREEN_ORIENTATION_LANDSCAPE);

                Toast.makeText(MainActivity.this, "Hey! We are in Landscape orientation",
                    Toast.LENGTH_SHORT).show();
            }
        });
    }
}
```

```

});
p.setOnClickListener(new View.OnClickListener() {

@Override public void onClick(View v) {
setRequestedOrientation(ActivityInfo.SCREEN_ORIENTATION_PORTRAIT);
Toast.makeText(MainActivity.this, "Hey! We are in Portrait orientation",
Toast.LENGTH_SHORT).show();

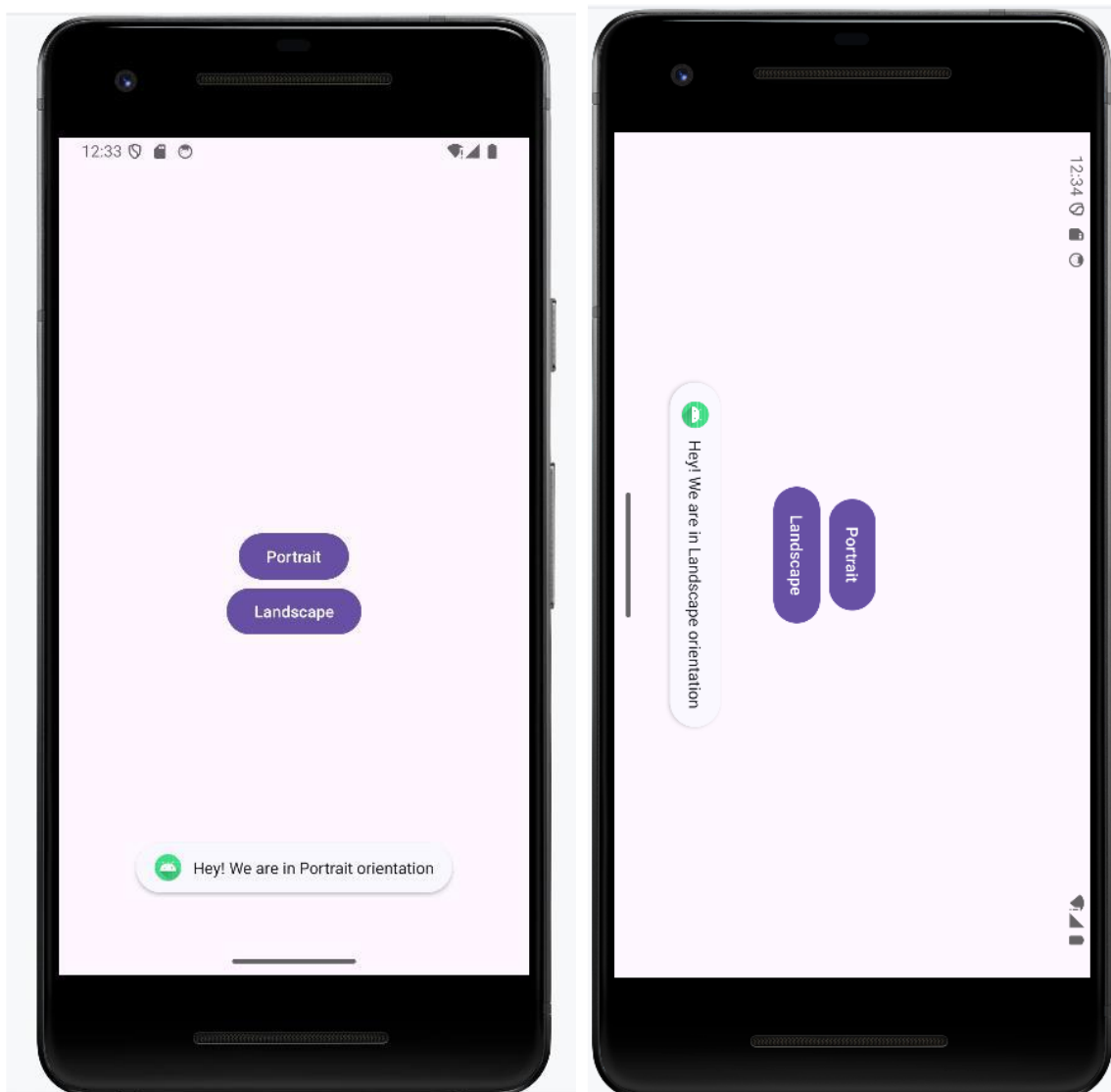
}
});

}


}

```

OUTPUT:



3. Create an application to develop Login window using UI controls.

1. Click **Start**  **Android Studio**, a **Welcome to Android Studio** dialog box will appear. Click **New Project**, the **New Project Dialog** box appears.
2. Choose **Empty Views Activity** then click **Next**.
3. Specify the **Name** of your project, Select the **Language** as **Java**. Click **Finish** Button.

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity"
    android:gravity="center"
    android:background="@drawable/ccc">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginRight="16dp"
        android:text="Implicit intent"
        android:onClick="onImplicitButtonClicked"/>

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginRight="16dp"
        android:text="Explicit intent"
        android:onClick="onExplicitButtonClicked"/>
</LinearLayout>
```

activity_second.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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".SecondActivity"
    android:background="@drawable/loginbg">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:gravity="center"
        android:text="Explicit Intent Called"
        android:textSize="40dp"
        android:textColor="#ffffff"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v,
insets) -> {
            Insets systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
systemBars.bottom);
            return insets;
        });
    }

    public void onImplicitButtonClicked(View view) {
        Uri url = Uri.parse("http://www.facebook.com");
        Intent intent = new Intent(Intent.ACTION_VIEW, url);
        startActivity(intent);
    }

    public void onExplicitButtonClicked(View view) {
        Intent intent =new Intent(MainActivity.this,SecondActivity.class);
        startActivity(intent);
    }

}
```

OUTPUT:



Implicit intent

Explicit intent





Explicit Intent Called





 m.facebook.com



English (UK)



Mobile number or email address

Password

Log in

Forgotten Password?

Create new account

