

```
<?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"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/text1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="50dp"
        android:layout_weight="1"
        android:background="#E1ACAC"
        android:gravity="center"
        android:text="Here's your Screen"
        android:textColor="#040000"
        android:textSize="25sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/uname"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="0"
        android:ems="10"
        android:hint="Please Enter Your Name"
        android:inputType="textPersonName"
        android:text=""
        android:textColorHint="#1B1818" />

    <EditText
        android:id="@+id/phone"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Please Enter Your Phone number"
        android:textColorHint="#1B1818"/>

    <Button
        android:id="@+id/btn1"
        android:layout_width="match_parent"
```

```

        android:layout_height="wrap_content"
        android:background="#DFAE9E"
        android:shadowColor="#B67171"
        android:text="Show my Name"
        android:textColorLink="#CF9E9E"
        app:rippleColor="#A65A5A"
        android:textSize="20sp"
        android:layout_marginBottom="50dp"
    "
    />

</LinearLayout>

```

Java code

```

package com.example.edittext;

import android.os.Bundle;
import android.provider.ContactsContract;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

import java.text.BreakIterator;

public class MainActivity extends AppCompatActivity {
    private TextView text1;
    private Button btn1;
    private EditText uname, phone;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
    }
}

```

```

text1 = (TextView) findViewById(R.id.text1);
btn1 = (Button) findViewById(R.id.btn1);
uname = (EditText) findViewById(R.id.uname);
phone = (EditText) findViewById(R.id.phone);

btn1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        String userName = uname.getText().toString();
        String uphone = pone.getText().toString();

        text1.setText("Your name is:" + userName + ",\n" + "Your Phone Number is: " + uphone);

    }
});

}
}

```

Textview app

```

<?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/textview"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="0dp"
    android:layout_marginLeft="0dp"
    android:layout_marginTop="0dp"
    android:layout_marginRight="0dp"
    android:layout_marginBottom="0dp"

```

```
android:background="@color/white"
android:padding="0dp"
android:paddingLeft="0dp"
android:orientation="vertical"
android:theme="@style/MaterialAlertDialog.Material3.Title.Panel"
tools:context=".MainActivity">
```

```
<TextView
    android:id="@+id/text1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="#DFD5D5"
    android:gravity="left"
    android:padding="10dp"
    android:paddingLeft="0dp"
    android:text="Parul University"
    android:textSize="30sp"
    android:textStyle="bold" />
```

```
<TextView
    android:id="@+id/text2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@id/text1"
    android:layout_weight="1"
    android:background="#E88989"
    android:paddingLeft="20dp"
    android:paddingTop="20dp"
    android:text="TextView Program"
    android:textSize="15sp" />
```

```
<TextView
    android:id="@+id/text3"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@id/text2"
    android:height="50dp"
    android:background="#DCCECE"
    android:gravity="center"
    android:text="This is an TextView Program"
    android:textSize="20sp" />
```

```
</LinearLayout>
```

Multielement

```
<?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:orientation="vertical">

    <CheckBox
        android:id="@+id/che1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:text="VolleyBall"
        android:textStyle="bold"
        tools:layout_editor_absoluteX="36dp"
        tools:layout_editor_absoluteY="17dp" />

    <CheckBox
        android:id="@+id/che2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:text="Tennis"
        android:textStyle="bold" />

    <CheckBox
        android:id="@+id/che3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:text="BasketBall"
        android:textStyle="bold" />

    <CheckBox
        android:id="@+id/che4"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:text="Hockey"
        android:textStyle="bold" />
```

```
<CheckBox
    android:id="@+id/ch5"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:text="Cricket"
    android:textStyle="bold" />
<SeekBar
    android:layout_width="match_parent"
    android:layout_height="32dp"
    android:layout_marginTop="18dp"
    android:id="@+id/simpleSeekBar"
    android:indeterminate="false"
    android:max="200"
    android:min="0"
    android:progress="60"
    android:layout_marginLeft="18dp"
    android:layout_marginRight="18dp"/>
<RatingBar
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:numStars="5"
    android:layout_gravity="center"
    android:id="@+id/rtin1"
    android:layout_marginTop="18dp"/>
<RadioGroup
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/rdi1">
    <RadioButton
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Mobile development"
        android:id="@+id/rdio1"
        android:textStyle="bold"
        android:textSize="25sp"/>
    <RadioButton
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Web development"
        android:id="@+id/rdio2"
        android:textStyle="bold"
        android:textSize="25sp"/>
    <RadioButton
        android:layout_width="match_parent"
```

```

        android:layout_height="wrap_content"
        android:text="Specilization"
        android:id="@+id/rdio3"
        android:textStyle="bold"
        android:textSize="25sp"/>

</RadioGroup>
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:layout_marginTop="40dp"
    android:text="click me "
    android:id="@+id/buttons"
    />
</LinearLayout>

```

```
package com.example.multielements;
```

```

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.RatingBar;
import android.widget.SeekBar;
import android.widget.Toast;

```

```

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

```

```

public class MainActivity extends AppCompatActivity {
    public CheckBox ch1, ch2, ch3, ch4, ch5;
    public SeekBar seekBar;
    public RatingBar ratingBar;
    public RadioGroup radioGroup; //,
    public RadioButton rb1;
    public Button btn;
    Button submitButton;
    SeekBar simpleSeekBar;

```

@Override

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    //seekbaar
    simpleSeekBar=(SeekBar)findViewById(R.id.simpleSeekBar);

    ch1 = findViewById(R.id.ch1);
    ch2 = findViewById(R.id.ch2);
    ch3 = findViewById(R.id.ch3);
    ch4 = findViewById(R.id.ch4);
    ch5 = findViewById(R.id.ch5);
    btn = findViewById(R.id.buttons);

    simpleSeekBar.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {
        int progressChangedValue = 0;

        public void onProgressChanged(SeekBar seekBar, int progress, boolean fromUser) {
            progressChangedValue = progress;
        }

        public void onStartTrackingTouch(SeekBar seekBar) {
            // TODO Auto-generated method stub
        }

        public void onStopTrackingTouch(SeekBar seekBar) {
            Toast.makeText(MainActivity.this, "Seek bar progress is :"+ progressChangedValue,
                Toast.LENGTH_SHORT).show();
        }
    });

    btn.setOnClickListener(new View.OnClickListener() {
        public void onClick(View v) {
            check();
        }
    });
}

public void check() {
    String msg = "";
    if (ch1.isChecked())
```



```

        msg = msg + " " + "Volleyball";
    if (ch2.isChecked())
        msg = msg + " " + "BasketBall";
    if (ch3.isChecked())
        msg = msg + " " + "Tennis";
    if (ch4.isChecked())
        msg = msg + " " + "Hockey";
    if (ch5.isChecked())
        msg = msg + " " + "Cricket";

    Toast.makeText(this, "You have Selected " + msg, Toast.LENGTH_SHORT).show();

}
}

```

RatinBar app

```

<?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=".MainActivity">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="submit"
        android:id="@+id/button"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.615" />

    <RatingBar

```

```
android:id="@+id/ratingBar"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginLeft="72dp"
android:layout_marginTop="60dp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

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

```
package com.example.ratingbar;
```

```
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.RatingBar;
import android.widget.Toast;
```

```
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
```

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

```
private void addListenerOnButtonClick() {
    ratingbar=(RatingBar)findViewById(R.id.ratingBar);
    button=(Button)findViewById(R.id.button);
}
```

```

button.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String rating=String.valueOf(ratingbar.getRating());
        Toast.makeText(getApplicationContext(), rating, Toast.LENGTH_LONG).show();
    }
});
}
}

```

Alert Dialog prog

Xml code:

```

<?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=".MainActivity">

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/button"
    android:text="Close app"
    android:textSize="40sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

String.xml code:

```

<resources>
    <string name="app_name">AlertDialog</string>
    <string name="dialog_message">Welcome to Alert Dialog</string>

```

```
<string name="dialog_title">Parul Alert Dialog</string>
</resources>
```

Java Code :

```
package com.example.alertdialog;
```

```
import android.content.DialogInterface;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.Toast;
```

```
import androidx.activity.EdgeToEdge;
```

```
import androidx.appcompat.app.AlertDialog;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import androidx.core.graphics.Insets;
```

```
import androidx.core.view.ViewCompat;
```

```
import androidx.core.view.WindowInsetsCompat;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    Button closeButton;
```

```
    AlertDialog.Builder builder;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        EdgeToEdge.enable(this);
```

```
        setContentView(R.layout.activity_main);
```

```
        closeButton = (Button) findViewById(R.id.button);
```

```
        builder = new AlertDialog.Builder(this);
```

```
        closeButton.setOnClickListener(new View.OnClickListener() {
```

```
            @Override
```

```
            public void onClick(View v) {
```

```
                //Setting message manually and performing action on button click
```

```
                builder.setMessage("Do you want to close this application ?")
```

```
                .setCancelable(false)
```

```
                .setPositiveButton("Yes", new DialogInterface.OnClickListener() {
```

```
                    public void onClick(DialogInterface dialog, int id) {
```

```
                        finish();
```

```
                        Toast.makeText(getApplicationContext(), "you choose yes action for alertbox",
```

```
                            Toast.LENGTH_SHORT).show();
```

```
                    }
```

```

    })
    .setNegativeButton("No", new DialogInterface.OnClickListener() {
        public void onClick(DialogInterface dialog, int id) {
            // Action for 'NO' Button
            dialog.cancel();
            Toast.makeText(getApplicationContext(),"you choose no action for alertbox",
                Toast.LENGTH_SHORT).show();
        }
    });
    //Creating dialog box
    AlertDialog alert = builder.create();
    //Setting the title manually
    alert.setTitle("AlertDialogExample");
    alert.show();
}
});
}
}

```

Autocpomp;letetextview

```

<?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=".MainActivity">

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="What is your favourite programming language?"
    android:textSize="20dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintHorizontal_bias="0.495"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent"

```

```

        app:layout_constraintVertical_bias="0.338" />

<AutoCompleteTextView
    android:id="@+id/autoCompleteTextView"
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:layout_marginStart="112dp"
    android:layout_marginTop="376dp"
    android:text=""
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Java code

```

package com.example.autocomplete;

import android.graphics.Color;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.AutoCompleteTextView;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class MainActivity extends AppCompatActivity {
    String[] language = {"C", "C++", "Java", ".NET", "iPhone", "Android", "ASP.NET", "PHP"};
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        //Creating the instance of ArrayAdapter containing list of language names

        ArrayAdapter<String> adapter = new ArrayAdapter<String>
            (this, android.R.layout.select_dialog_item, language);
        //Getting the instance of AutoCompleteTextView

        AutoCompleteTextView actv = (AutoCompleteTextView)findViewById(R.id.autoCompleteTextView);
        actv.setThreshold(1); //will start working from first character
        actv.setAdapter(adapter); //setting the adapter data into the AutoCompleteTextView
    }
}

```

```
    actv.setTextColor(Color.RED);  
}  
}
```

Toggle Button

```
<?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=".MainActivity">  
  
<ToggleButton  
    android:id="@+id/toggleButton"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginLeft="8dp"  
    android:layout_marginTop="80dp"  
    android:text="ToggleButton"  
    android:textOff="Off"  
    android:textOn="On"  
    app:layout_constraintEnd_toStartOf="@+id/toggleButton2"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent" />  
  
<ToggleButton  
    android:id="@+id/toggleButton2"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginRight="60dp"  
    android:layout_marginTop="80dp"  
    android:text="ToggleButton"  
    android:textOff="Off"  
    android:textOn="On"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintTop_toTopOf="parent" />  
  
<Button  
    android:id="@+id/button"  
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
    android:layout_marginBottom="144dp"
    android:layout_marginLeft="148dp"
    android:text="Submit"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintStart_toStartOf="parent" />
```

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

Java code

```
package com.example.toggle;
```

```
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
import android.widget.ToggleButton;
```

```
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
```

```
public class MainActivity extends AppCompatActivity {
    private ToggleButton toggleButton1, toggleButton2;
    private Button buttonSubmit;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        addListenerOnButtonClick();
    }
```

```
    public void addListenerOnButtonClick(){
        //Getting the ToggleButton and Button instance from the layout xml file
        toggleButton1=(ToggleButton)findViewById(R.id.toggleButton);
        toggleButton2=(ToggleButton)findViewById(R.id.toggleButton2);
        buttonSubmit=(Button)findViewById(R.id.button);
```

```
        //Performing action on button click
```



```

buttonSubmit.setOnClickListener(new View.OnClickListener(){

    @Override
    public void onClick(View view) {
        StringBuilder result = new StringBuilder();
        result.append("ToggleButton1 : ").append(toggleButton1.getText());
        result.append("\nToggleButton2 : ").append(toggleButton2.getText());
        //Displaying the message in toast
        Toast.makeText(getApplicationContext(), result.toString(), Toast.LENGTH_LONG).show();
    }

});

}
}

```

Datpicker

```

<?xml version="1.0" encoding="utf-8"?>
<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:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/button1"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"
        android:layout_marginBottom="102dp"
        android:layout_marginLeft="30dp"
        android:layout_marginStart="30dp"
        android:text="" />

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"

```

```
    android:layout_centerHorizontal="true"
    android:layout_marginBottom="20dp"
    android:text="Change Date" />
```

```
<DatePicker
    android:id="@+id/datePicker"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_above="@+id/textView1"
    android:layout_centerHorizontal="true"
    android:layout_marginBottom="36dp" />
```

```
</RelativeLayout>
```

```
package com.example.datepicker;
```

```
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TextView;
```

```
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
```

```
public class MainActivity extends AppCompatActivity {
    DatePicker picker;
    Button displayDate;
    TextView textView1;
```

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.activity_main); textView1=(TextView)findViewById(R.id.textView1);
    picker=(DatePicker)findViewById(R.id.datePicker);
    displayDate=(Button)findViewById(R.id.button1);

    textView1.setText("Current Date: "+getCurrentDate());
```

```

displayDate.setOnClickListener(new View.OnClickListener(){
    @Override
    public void onClick(View view) {

        textview1.setText("Change Date: "+getCurrentDate());
    }

});

}

public String getCurrentDate(){
    StringBuilder builder=new StringBuilder();
    builder.append((picker.getMonth() + 1)+"/");//month is 0 based
    builder.append(picker.getDayOfMonth()+"/");
    builder.append(picker.getYear());
    return builder.toString();
}
}
Time Picker

```

```

<?xml version="1.0" encoding="utf-8"?>
<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:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/button1"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"
        android:layout_marginBottom="102dp"
        android:layout_marginLeft="30dp"
        android:layout_marginStart="30dp"
        android:text="" />

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"

```

```

        android:layout_centerHorizontal="true"
        android:layout_marginBottom="20dp"
        android:text="Change Time" />

<TimePicker
    android:id="@+id/timePicker"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_above="@+id/textView1"
    android:layout_centerHorizontal="true"
    android:layout_marginBottom="36dp" />
</RelativeLayout>

```

Java code

```

package com.example.timepicker;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.TimePicker;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class MainActivity extends AppCompatActivity {
    TextView textView1;
    TimePicker timepicker;
    Button changetime;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        textView1 = (TextView) findViewById(R.id.textView1);
    }
}

```

```

        timepicker = (TimePicker) findViewById(R.id.timePicker);//Uncomment the below line of code for 24 hour
view
        timepicker.setIs24HourView(true);
        changetime = (Button) findViewById(R.id.button1);

        textview1.setText(getCurrentTime());

        changetime.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                textview1.setText(getCurrentTime());
            }
        });

    }

    public String getCurrentTime(){
        String currentTime="Current Time: "+timepicker.getCurrentHour()+":"+timepicker.getCurrentMinute();
        return currentTime;
    }

}

```

Listview

Activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:orientation="vertical"
    tools:context=".MainActivity" >

    <ListView
        android:id="@+id/mobile_list"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" >

```

```
</ListView>
```

```
</LinearLayout>
```

Then create another xml file for the listing view name is : acitivity_listview.xml

Acitivity_listview.xml

```
<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/label"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:padding="10dip"
    android:textSize="16dip"
    android:textStyle="bold" >
</TextView>
```

JAVA CODE

```
package com.example.listview;

import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class MainActivity extends AppCompatActivity {
    String[] mobileArray = {"Android", "iPhone", "WindowsMobile", "Blackberry",
        "WebOS", "Ubuntu", "Windows7", "Max OS X"};

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```

EdgeToEdge.enable(this);
setContentView(R.layout.activity_main);
ArrayAdapter adapter = new ArrayAdapter<String>(this,
    R.layout.activity_listview, mobileArray);

ListView listView = (ListView) findViewById(R.id.mobile_list);
listView.setAdapter(adapter);
listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
        String data= adapter.getItem(position).toString();
        //String v=adapter.getItem(position);
        Toast.makeText(getApplicationContext(),data,Toast.LENGTH_SHORT).show();
    }
});
}
}
}

```