*<?*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.Pan el"

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>

Mutltielement

*<?*xml version="1.0" encoding="utf-8"*?>*

<LinearLayout xmlns:android="[http://schemas.android.com](http://schemas.android.com/)

/apk/res/android"

xmlns:app="<http://schemas.android.com/apk>

/res-auto"

xmlns:tools="<http://schemas.android.com/t> ools"

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.*che1*); |
| ch2 | = | findViewById(R.id.*che2*); |
| ch3 | = | findViewById(R.id.*che3*); |
| ch4 | = | findViewById(R.id.*che4*); |
| 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.Constra intLayout xmlns:android="[http://schemas.android.com](http://schemas.android.com/)

/apk/res/android"

xmlns:app="<http://schemas.android.com/apk>

/res-auto"

xmlns:tools="<http://schemas.android.com/t> ools"

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="p arent"

app:layout\_constraintLeft\_toLeftOf="paren t"

app:layout\_constraintRight\_toRightOf="par ent"

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="par ent"

app:layout\_constraintTop\_toTopOf="parent"

/>

</androidx.constraintlayout.widget.Constr aintLayout>

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.*ra tingBar*);

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.Constra intLayout xmlns:android="[http://schemas.android.com](http://schemas.android.com/)

/apk/res/android"

xmlns:app="<http://schemas.android.com/apk>

/res-auto"

xmlns:tools="<http://schemas.android.com/t> ools"

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="p arent"

app:layout\_constraintLeft\_toLeftOf="paren t"

app:layout\_constraintRight\_toRightOf="par ent"

app:layout\_constraintTop\_toTopOf="parent"

/>

</androidx.constraintlayout.widget.Constr aintLayout>

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(),"y ou 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(),"y ou 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.Constra intLayout xmlns:android="[http://schemas.android.com](http://schemas.android.com/)

/apk/res/android"

xmlns:app="<http://schemas.android.com/apk>

/res-auto"

xmlns:tools="<http://schemas.android.com/t> ools"

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="p arent"

app:layout\_constraintHorizontal\_bias="0.4 95"

app:layout\_constraintLeft\_toLeftOf="paren t"

app:layout\_constraintRight\_toRightOf="par ent"

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="par ent"

app:layout\_constraintTop\_toTopOf="parent"

/>

</androidx.constraintlayout.widget.Constr aintLayout>

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","Andro id","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.*a utoCompleteTextView*);

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.Constra intLayout xmlns:android="[http://schemas.android.com](http://schemas.android.com/)

/apk/res/android"

xmlns:app="<http://schemas.android.com/apk>

/res-auto"

xmlns:tools="<http://schemas.android.com/t> ools"

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="par ent"

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="p arent"

app:layout\_constraintStart\_toStartOf="par ent" />

</androidx.constraintlayout.widget.Constr aintLayout>

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.*bu tton*);

*//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 ();

}

});

}

}

Datepicker

*<?*xml version="1.0" encoding="utf-8"*?>*

<RelativeLayout xmlns:android="[http://schemas.android.com](http://schemas.android.com/)

/apk/res/android"

xmlns:app="<http://schemas.android.com/apk>

/res-auto"

xmlns:tools="<http://schemas.android.com/t> ools"

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.*tex tView1*);

picker=(DatePicker)findViewById(R.id.*date Picker*);

displayDate=(Button)findViewById(R.id.*but ton1*);

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](http://schemas.android.com/)

/apk/res/android"

xmlns:app="<http://schemas.android.com/apk>

/res-auto"

xmlns:tools="<http://schemas.android.com/t> ools"

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()+":"+timepic ker.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/re**](http://schemas.android.com/apk/re) **s/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,Toas t.*LENGTH\_SHORT*).show();**

**}**

**});**

**}**

**}**

**— Notification**

***<?*xml version="1.0"**

**encoding="utf-8"*?>***

**<androidx.constraintlayout.widget.Con straintLayout xmlns:android="**[**http://schemas.android.co**](http://schemas.android.co/) **m/apk/res/android"**

**xmlns:app="**[**http://schemas.android.com/ap**](http://schemas.android.com/ap) **k/res-auto"**

**xmlns:tools="**[**http://schemas.android.com/**](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="Hello World!"**

**app:layout\_constraintBottom\_toBottomOf=" parent"**

**app:layout\_constraintEnd\_toEndOf="parent "**

**app:layout\_constraintStart\_toStartOf="pa rent"**

**app:layout\_constraintTop\_toTopOf="parent " />**

**</androidx.constraintlayout.widget.Co nstraintLayout>**

**java code :**

**package com.example.notification;**

**import android.app.Notification; import**

**android.app.NotificationChannel;**

**import android.app.NotificationManager;**

**import android.graphics.Bitmap; import**

**android.graphics.drawable.BitmapDrawable**

**;**

**import android.graphics.drawable.Drawable;**

**import android.os.Bundle;**

**import androidx.activity.EdgeToEdge; import**

**androidx.appcompat.app.AppCompatActivity**

**;**

**import androidx.core.content.res.ResourcesCompa t;**

**import androidx.core.graphics.Insets; import androidx.core.view.ViewCompat; import**

**androidx.core.view.WindowInsetsCompat;**

**public class MainActivity extends AppCompatActivity {**

**private static final String**

***CHANNEL\_ID*= "My Channel";**

**private static final int**

***NOTIFICATION\_ID*= 100;**

**@Override**

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

**super.onCreate(savedInstanceState); EdgeToEdge.*enable*(this);**

**setContentView(R.layout.*activity\_main*);**

**Drawable drawable = ResourcesCompat.*getDrawable*(getResources (), R.drawable.*icon*, null);**

**BitmapDrawable bitmapDrawable**

**= (BitmapDrawable) drawable;**

**Bitmap largeIcon = bitmapDrawable.getBitmap();**

**NotificationManager nm = (NotificationManager) getSystemService(*NOTIFICATION\_SERVICE*);**

**Notification notification;**

**if (android.os.Build.VERSION.*SDK\_INT* >= android.os.Build.VERSION\_CODES.*O*) {**

**notification = new Notification.Builder(this)**

**.setLargeIcon(largeIcon)**

**.setSmallIcon(R.drawable.*icon*)**

**.setContentText("Hi, salary of INR 89,657.00 is credited to HDFC Bank A/c XX6567. Aval Bal: INR 10,00,00,000.00")**

**.setSubText("Congratulation")**

**.setChannelId(*CHANNEL\_ID*)**

**.build();**

**nm.createNotificationChannel(new NotificationChannel(*CHANNEL\_ID*, "New Channel", NotificationManager.*IMPORTANCE\_HIGH*));**

**} else {**

**notification = new Notification.Builder(this)**

**.setLargeIcon(largeIcon)**

**.setSmallIcon(R.drawable.*icon*)**

**.setContentText("Your Salary got credited. Your Current Balance is 10,00,00,000")**

**.setSubText("Congratulation")**

**.build();**

**}**

**notification);**

**nm.notify(*NOTIFICATION\_ID*,**

**}**

**}**

**Broadcast Recievrr**

***<?*xml version="1.0"**

**encoding="utf-8"*?>***

**<androidx.constraintlayout.widget.Con straintLayout xmlns:android="**[**http://schemas.android.co**](http://schemas.android.co/) **m/apk/res/android"**

**xmlns:app="**[**http://schemas.android.com/ap**](http://schemas.android.com/ap) **k/res-auto"**

**xmlns:tools="**[**http://schemas.android.com/**](http://schemas.android.com/) **tools"**

**android:id="@+id/main" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" tools:context=".MainActivity">**

**<TextView**

**android:id="@+id/tv" android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Brodcast**

**Recievre"**

**app:layout\_constraintBottom\_toBottomOf=" parent"**

**app:layout\_constraintEnd\_toEndOf="parent "**

**app:layout\_constraintStart\_toStartOf="pa rent"**

**app:layout\_constraintTop\_toTopOf="parent " />**

**</androidx.constraintlayout.widget.Co nstraintLayout>**

**mainActivity.java**

**package com.example.broadcastreceiver;**

**import android.content.Intent; import android.content.IntentFilter; import android.os.Bundle;**

**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 {**

**TextView tv;**

**BatteryReceiver batteryReceiver; @Override**

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

**super.onCreate(savedInstanceState); EdgeToEdge.*enable*(this);**

**setContentView(R.layout.*activity\_main*);**

**tv= findViewById(R.id.*tv*); batteryReceiver = new**

**BatteryReceiver(tv);**

**registerReceiver(batteryReceiver, new IntentFilter(Intent.*ACTION\_BATTERY\_CHANG ED*));**

**}**

**@Override**

**protected void onStop() { super.onStop();**

**unregisterReceiver(batteryReceiver);**

**}**

**}**

**BatteryReciver.java**

**package com.example.broadcastreceiver;**

**import android.content.BroadcastReceiver;**

**import android.content.Context; import android.content.Intent; import android.widget.TextView;**

**public class BatteryReceiver extends BroadcastReceiver {**

**private TextView tv;**

**tv) {**

**}**

**public BatteryReceiver(TextView this.tv = tv;**

**@Override**

**public void onReceive(Context context, Intent intent) {**

**int level = intent.getIntExtra("level", 0);**

**tv.setText("Battery Level: " + level + "%");**

**}**

**}**

Shared preference

Activity\_main.xml

*<?*xml version="1.0" encoding="utf-8"*?>*

<LinearLayout xmlns:android="[http://schema](http://schema/) s.android.com/apk/res/androi d"

xmlns:app="[http://schemas.an](http://schemas.an/) droid.com/apk/res-auto"

xmlns:tools="[http://schemas.](http://schemas/) android.com/tools"

android:id="@+id/main"

android:layout\_width="match\_ parent"

android:layout\_height="match

\_parent"

tools:context=".MainActivity "

android:background="#005"

android:orientation="vertica l"

android:gravity="center">

<TextView

android:layout\_width="wrap\_c ontent"

android:layout\_height="wrap\_ content"

android:text="Parul University"

android:textSize="34sp" android:textColor="#FFF" android:textStyle="bold"

tools:ignore="MissingConstra ints"/>

</LinearLayout>

Activity\_login

*<?*xml version="1.0" encoding="utf-8"*?>*

<LinearLayout xmlns:android="[http://schema](http://schema/) s.android.com/apk/res/androi d"

xmlns:app="[http://schemas.an](http://schemas.an/) droid.com/apk/res-auto"

xmlns:tools="[http://schemas.](http://schemas/) android.com/tools"

android:id="@+id/main"

android:layout\_width="match\_ parent"

android:layout\_height="match

\_parent" android:background="#FFC107" android:gravity="center"

tools:context=".LoginActivit y">

<Button android:id="@+id/btnLogin"

android:layout\_width="wrap\_c ontent"

android:layout\_height="wrap\_ content"

android:backgroundTint="#EFD EDE"

android:text="Login" android:textColor="#454343"

/>

</LinearLayout>

Activity\_Home

*<?*xml version="1.0" encoding="utf-8"*?>*

<RelativeLayout xmlns:android="[http://schema](http://schema/) s.android.com/apk/res/androi d"

xmlns:app="[http://schemas.an](http://schemas.an/) droid.com/apk/res-auto"

xmlns:tools="[http://schemas.](http://schemas/) android.com/tools"

android:id="@+id/main"

android:layout\_width="match\_ parent"

android:layout\_height="match

\_parent"

android:background="#F1C02F"

android:orientation="vertica l"

tools:context=".HomeActivity ">

<Button android:id="@+id/btnLogOut"

android:layout\_width="wrap\_c ontent"

android:layout\_height="wrap\_ content"

android:layout\_alignParentRi ght="true"

android:backgroundTint="#EFE 6E6"

android:text="LOGOUT" android:textColor="#292525"

/>

</RelativeLayout>

MainActivity.java

package com.example.sharedprefrence;

import android.content.Intent;

import android.content.SharedPrefer ences;

import android.os.Bundle; import

android.os.Handler;

import androidx.activity.EdgeToEdge

;

import androidx.appcompat.app.AppCo mpatActivity;

import androidx.core.graphics.Inset s;

import androidx.core.view.ViewCompa t;

import androidx.core.view.WindowIns etsCompat;

public class MainActivity extends AppCompatActivity {

@Override protected void

onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstance State);

EdgeToEdge.*enable*(this);

setContentView(R.layout.*acti vity\_main*);

new Handler().postDelayed(new Runnable() {

run() {

@Override public void

SharedPreferences pref= getSharedPreferences("Login"

, *MODE\_PRIVATE*);

Boolean

check=

pref.getBoolean("flag", false);

iNext;

Intent

if(check)

{

iNext

= new

Intent(MainActivity.this, HomeActivity.class);

}else{

iNext

= new Intent(MainActivity.this, LoginActivity.class);

}

startActivity(iNext);

}

},1000);

}

}

Login\_activity.java

package com.example.sharedprefrence;

import android.content.Intent;

import android.content.SharedPrefer ences;

import android.os.Bundle; import android.view.View; import

android.widget.Button;

import androidx.activity.EdgeToEdge

;

import androidx.appcompat.app.AppCo mpatActivity;

import androidx.core.graphics.Inset s;

import androidx.core.view.ViewCompa t;

import androidx.core.view.WindowIns etsCompat;

public class LoginActivity extends AppCompatActivity {

Button btnLogin; @Override protected void

onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstance State);

EdgeToEdge.*enable*(this);

setContentView(R.layout.*acti vity\_login*);

btnLogin = findViewById(R.id.*btnLogin*);

btnLogin.setOnClickListener( new View.OnClickListener()

{

public void onClick(View view){

SharedPreferences pref = getSharedPreferences("Login"

, *MODE\_PRIVATE*);

SharedPreferences.Editor editor= pref.edit();

editor.putBoolean("flag", true);

editor.apply();

Intent

iHome= new

Intent(LoginActivity.this, HomeActivity.class);

startActivity(iHome);

}

});

}

}

Home\_activity.java

package com.example.sharedprefrence;

import android.content.SharedPrefer ences;

import android.os.Bundle; import android.view.View; import

android.widget.Button;

import androidx.activity.EdgeToEdge

;

import androidx.appcompat.app.AppCo mpatActivity;

import androidx.core.graphics.Inset s;

import androidx.core.view.ViewCompa t;

import androidx.core.view.WindowIns etsCompat;

public class HomeActivity extends AppCompatActivity {

Button btnLogOut; @Override protected void

onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstance State);

EdgeToEdge.*enable*(this);

setContentView(R.layout.*acti vity\_home*);

btnLogOut = findViewById(R.id.*btnLogOut*)

;

btnLogOut.setOnClickListener (new View.OnClickListener()

{

@Override public void

onClick(View v) {

SharedPreferences pref= getSharedPreferences("Login"

, *MODE\_PRIVATE*);

SharedPreferences.Editor editor= pref.edit();

editor.putBoolean("flag", false);

editor.apply();

}

});

}

}

Context Menu

mainActivity.xml ……………………….

*<?*xml version="1.0" encoding="utf-8"*?>*

<LinearLayout xmlns:android="[http://schema](http://schema/) s.android.com/apk/res/androi d"

xmlns:app="[http://schemas.an](http://schemas.an/) droid.com/apk/res-auto"

xmlns:tools="[http://schemas.](http://schemas/) android.com/tools"

android:id="@+id/main"

android:layout\_width="match\_ parent"

android:layout\_height="match

\_parent"

tools:context=".MainActivity "

android:orientation="vertica l"

android:gravity="center">

<TextView

android:layout\_width="wrap\_c ontent"

android:layout\_height="wrap\_ content"

android:text="Long Press Me"

android:textSize="30sp"

android:textStyle="bold" android:id="@+id/tv"

/>

</LinearLayout>

MainActivity.java…………………………..

package com.example.contextmenu;

import android.graphics.Color; import android.os.Bundle; import android.os.PersistableBundle

;

import android.view.ContextMenu; import android.view.MenuItem; import android.view.View;

import android.widget.LinearLayout; import android.widget.TextView;

import androidx.activity.EdgeToEdge

;

import androidx.annotation.NonNull; import androidx.annotation.Nullable

;

import androidx.appcompat.app.AppCo mpatActivity;

import androidx.core.graphics.Inset s;

import androidx.core.view.ViewCompa t;

import androidx.core.view.WindowIns etsCompat;

public class MainActivity extends AppCompatActivity { TextView tv;

LinearLayout main; @Override protected void

onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstance State);

EdgeToEdge.*enable*(this);

setContentView(R.layout.*acti vity\_main*);

tv= findViewById(R.id.*tv*);

main = findViewById(R.id.*main*);

registerForContextMenu(tv);

}

@Override public void

onCreateContextMenu(ContextM enu menu, View v, ContextMenu.ContextMenuInfo menuInfo) {

super.onCreateContextMenu(me nu, v, menuInfo);

menu.setHeaderTitle("Choose a Color");

menu.add(0, v.getId(), 0, "Light Yellow");

menu.add(0, v.getId(), 0, "purple");

menu.add(0, v.getId(), 0, "green");

}

@Override public boolean

onContextItemSelected(@NonNu ll MenuItem item) {

if (item.getTitle()

== "Light Yellow") {

main.setBackgroundColor(Colo r.*argb*(100, 225, 193, 7));

} if (item.getTitle() == "green")

{

main.setBackgroundColor(Colo r.*argb*(100, 3, 209, 111));

} if (item.getTitle() == "purple") {

main.setBackgroundColor(Colo r.*argb*(100, 89, 64, 187));

}

return true;

}

}