Normal toast message:

Java:

package com.example.practice1;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditText input1; //input of the text

Button input2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

input1 = findViewById(R.id.editTextText);

input2 = findViewById(R.id.button);

input2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

showtoast();

}

});

}

public void showtoast(){

String str= input1.getText().toString().trim();

int len=str.length();

String st2 = Integer.valueOf(len).toString();

Toast.makeText(this, "Hello "+str, Toast.LENGTH\_SHORT).show();

Toast.makeText(this, "Hello "+str +st2, Toast.LENGTH\_SHORT).show(); }}

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:id="@+id/textView"

android:layout\_width="191dp"

android:layout\_height="0dp"

android:layout\_marginStart="23dp"

android:layout\_marginTop="57dp"

android:layout\_marginBottom="144dp"

android:text="enter ur name:"

android:textSize="25dp"

app:layout\_constraintBottom\_toTopOf="@+id/button"

app:layout\_constraintStart\_toStartOf="parent"

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

<EditText

android:id="@+id/editTextText"

android:layout\_width="324dp"

android:layout\_height="169dp"

android:layout\_marginStart="30dp"

android:layout\_marginBottom="545dp"

android:ems="10"

android:hint="eg:aku"

android:inputType="text"

android:text=""

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintStart\_toStartOf="@+id/textView"

app:layout\_constraintTop\_toBottomOf="@+id/textView" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginEnd="42dp"

android:layout\_marginBottom="426dp"

android:text="Button"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="@+id/editTextText"

app:layout\_constraintTop\_toBottomOf="@+id/textView" />

<CheckBox

android:id="@+id/checkBox"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="CheckBox"

tools:layout\_editor\_absoluteX="53dp"

tools:layout\_editor\_absoluteY="258dp" />

</androidx.constraintlayout.widget.ConstraintLayout>

BMI:

package com.example.prac2;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Button btn;

EditText input1, input2 , input3;

TextView res;

input1 = findViewById(R.id.editTextText);

input2 = findViewById(R.id.editTextText2);

input3 = findViewById(R.id.editTextText3);

btn=findViewById(R.id.button);

res=findViewById(R.id.textView6);

btn.setOnClickListener(new View.OnClickListener()

{

@Override

public void onClick(View v) {

int wt= Integer.parseInt(input1.getText().toString().trim());

res.setText("underweight "+ wt );

}

});

}}

INTENT with list view:

MainActivity1.java

package com.example.intent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Button btnNext;

btnNext = findViewById(R.id.button);

Intent iNext= new Intent(MainActivity.this,MainActivity2.class);

btnNext.setOnClickListener(new View.OnClickListener()

{

@Override

public void onClick(View v) {

startActivity(iNext);

}

});

}

}

MainActivity2.java: (ListView)

package com.example.intent;

import androidx.appcompat.app.AppCompatActivity;

import androidx.appcompat.view.menu.MenuBuilder;

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 java.util.ArrayList;

public class MainActivity2 extends AppCompatActivity {

ArrayList<String> arrName=new ArrayList<> ();

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

ListView listView1;

listView1 = findViewById(R.id.listView);

int[] arrNo = new int[]{1, 2, 3, 4, 5};

ArrayList<String> arrName = new ArrayList<>();

arrName.add("person1");

arrName.add("person2");

arrName.add("person13");

arrName.add("person14");

arrName.add("person15");

arrName.add("person16");

arrName.add("person17");

arrName.add("person18");

arrName.add("person19");

arrName.add("person10");

arrName.add("person111");

arrName.add("person112");

arrName.add("person113");

arrName.add("person114");

arrName.add("person115");

arrName.add("person116");

arrName.add("person117");

ArrayAdapter<String> adapter = new ArrayAdapter<>(getApplication(), android.R.layout.simple\_list\_item\_1, arrName);

listView1.setAdapter(adapter);

listView1.setOnItemClickListener(new AdapterView.OnItemClickListener() {

@Override

public void onItemClick(AdapterView<?> adapterView, View view, int position, long l)

{

if (position==0)

{

Toast.makeText(MainActivity2.this, "Item1 clicked", Toast.LENGTH\_SHORT).show();

}

}

});

}}

MainAct.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">

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="NEXT"

app:layout\_constraintBottom\_toBottomOf="parent"

tools:layout\_editor\_absoluteX="162dp" />

</androidx.constraintlayout.widget.ConstraintLayout>

MainAct2.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=".MainActivity2">

<LinearLayout

android:id="@+id/linearLayout"

android:layout\_width="0dp"

android:layout\_height="0dp"

android:layout\_marginStart="1dp"

android:layout\_marginTop="1dp"

android:layout\_marginEnd="1dp"

android:layout\_marginBottom="1dp"

android:orientation="vertical"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

<ListView

android:id="@+id/listView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

SPINNER:

Main.java

package com.example.spinner2;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;

import android.os.Bundle;

import android.view.View;

import android.widget.Spinner;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.ListView;

import android.widget.Toast;

import java.util.ArrayList;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

Spinner spinner;

ArrayList<String> arrId=new ArrayList<> ();

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

spinner = findViewById(R.id.spinner);

arrId.add("person1");

arrId.add("person2");

arrId.add("person3");

arrId.add("person4");

arrId.add("person5");

ArrayAdapter<String> spinnerAdapter = new ArrayAdapter<>(this,android.R.layout.simple\_spinner\_dropdown\_item,arrId);

spinner.setAdapter(spinnerAdapter);

}

}

Spinner 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">

<Spinner

android:id="@+id/spinner"

android:layout\_width="395dp"

android:layout\_height="198dp"

android:layout\_marginStart="1dp"

android:layout\_marginTop="301dp"

android:layout\_marginEnd="1dp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

ALERT DIALOG :

Java

package com.example.alertdialog;

import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

import android.content.DialogInterface;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

Button mybutton;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

mybutton = findViewById(R.id.button);

mybutton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

//Show dialog

AlertDialog dialog=createDialog();

dialog.show();

}

});

}

AlertDialog createDialog(){

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

builder.setMessage("Do u want to do?");

builder.setPositiveButton("yes", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialog, int i) {

Toast.makeText(MainActivity.this, "clicked yes", Toast.LENGTH\_SHORT).show();

}

});

builder.setNegativeButton("No", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialog, int i) {

Toast.makeText(MainActivity.this, "clicked no", Toast.LENGTH\_SHORT).show();

}

});

return builder.create();

}

}

ALERT DIALOG :

XML

<?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" >

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Click"

tools:layout\_editor\_absoluteX="119dp"

tools:layout\_editor\_absoluteY="210dp" />

</RelativeLayout>

NOTIFICATION :

package com.example.notification;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.content.res.ResourcesCompat;  
  
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.graphics.drawable.Icon;  
import android.os.Build;  
import android.os.Bundle;  
  
public class MainActivity extends AppCompatActivity {  
 private static final String *CHANNEL\_ID*="MyChannel";  
  
 private static final int *NOTIFICATION\_ID*=100;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 Drawable drawable = ResourcesCompat.*getDrawable*(getResources(),R.drawable.*new\_icon*,null);  
 BitmapDrawable bitmapDrawable=(BitmapDrawable) drawable;  
 Bitmap largeIcon=BitmapDrawable.getBitmap();  
  
 NotificationManager nm=(NotificationManager) getSystemService(*NOTIFICATION\_SERVICE*);  
  
 if (Build.VERSION.*SDK\_INT* >= Build.VERSION\_CODES.*O*) {  
 Icon largIcon = null;  
 Notification notification = new Notification.Builder(this)  
 .setLargeIcon(largIcon)  
 .setSmallIcon(R.drawable.*new\_icon*)  
 .setContentText("New message")  
 .setSubText("new message from aku")  
 .setChannelId(*CHANNEL\_ID*)  
 .build();  
 nm.createNotificationChannel(new NotificationChannel(*CHANNEL\_ID*,"new channel",NotificationManager.*IMPORTANCE\_HIGH*));  
 nm.notify(*NOTIFICATION\_ID*,notification);  
 }  
 else {  
 Icon largIcon = null;  
 Notification notification = new Notification.Builder(this)  
 .setLargeIcon(largIcon)  
 .setSmallIcon(R.drawable.*new\_icon*)  
 .setContentText("New message")  
 .setSubText("new message from aku")  
  
 .build();  
 nm.notify(*NOTIFICATION\_ID*,notification);  
 }  
 }  
}