

LP1-ACTIVITY LIFE CYCLE

Main activity

```
package com.example.exptt3;
```

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

```
import
```

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

```
import
```

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

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

```
    @Override
```

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

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

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

```
        Toast.makeText(getApplicationContext(),"AppCreate  
function",Toast.LENGTH_SHORT).show();
```

```
    }
```

```
    @Override
```

```
    protected void onStart()
```

```
{        super.onStart();
```

```
        Toast.makeText(getApplicationContext(),"AppStart  
function",Toast.LENGTH_SHORT).show();
```

```
    }
```

```
    @Override
```

```
    protected void onResume()
```

```
{        super.onResume();
```

```
        Toast.makeText(getApplicationContext(),"AppResume  
function",Toast.LENGTH_SHORT).show();
```



```

    }

    @Override
    protected void onPause()
    {
        super.onPause();
        Toast.makeText(getApplicationContext(),"AppPause
function",Toast.LENGTH_SHORT).show();
    }

    @Override
    protected void onStop()
    {
        super.onStop();
        Toast.makeText(getApplicationContext(),"AppStop
function",Toast.LENGTH_SHORT).show();
    }

    @Override
    protected void onRestart()
    {
        super.onRestart();
        Toast.makeText(getApplicationContext(),"AppRestart
function",Toast.LENGTH_SHORT).show();
    }

    @Override
    protected void onDestroy()
    {
        super.onDestroy();

        Toast.makeText(getApplicationContext(),"AppDestroy
function",Toast.LENGTH_SHORT).show();
    }
}

```

Activity.xml

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



```
<androidx.constraintlayout.widget.Co  
nstraintLayout  
xmlns:android="http://schemas.andro  
id.com/apk/res/android"  
xmlns:app="http://schemas.android.c  
om/apk/res-auto"  
xmlns:tools="http://schemas.android.  
com/tools"  
android:layout_width="match_parent"  
android:layout_height="match_parent"  
tools:context=".MainActivity"  
android:background="#99ddff">
```

```
    <TextView  
        android:id="@+id/textView"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:text="Hello World!"  
        app:layout_constraintBottom_toBottomOf="parent"  
        app:layout_constraintLeft_toLeftOf="parent"  
        app:layout_constraintRight_toRightOf="parent"  
        app:layout_constraintTop_toTopOf="parent" />
```

```
    <EditText  
        android:id="@+id/ed"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:ems="10"
```

```
        android:inputType="textPersonName"  
        android:text="PRIYANKA"  
        app:layout_constraintBottom_toBottomOf="parent"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintStart_toStartOf="parent"
```



```
app:layout_constraintTop_toBottomOf="@+id/textView"
/>
```

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

Implicit-intent:

main activity.java

```
package com.example.implicitin; import
androidx.appcompat.app.AppCompatActivity
y; import android.content.Intent; import
android.net.Uri; import android.os.Bundle;
import android.view.View; import
android.widget.Button; import
android.widget.EditText; public class
MainActivity extends AppCompatActivity {
EditText phoneNumberToCall;
Button call;
@Override

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



```

setContentView(R.layout.activity_main);
call = findViewById(R.id.call);
phoneNumberToCall =
findViewById(R.id.myphone);
call.setOnClickListener(new
View.OnClickListener() {
@Override public void
onClick(View v) {
Uri myUri = Uri.parse("tel:" +
phoneNumberToCall.getText().toString()); Intent it =
new Intent(Intent.ACTION_DIAL, myUri); startActivity(it);
}
});
}
}

```

Activitymain.xml

```

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

```



```
android:layout_height="match_parent"
android:orientation="vertical"
tools:context=".MainActivity">
<EditText
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/myphone"
android:hint="Enter the Phone Number"
android:layout_margin="20dp"
/>
<Button
android:layout_width="match_parent"
android:layout_height="wrap_content"

android:id="@+id/call"
android:text="CALL"
android:layout_margin="20dp"/>

</LinearLayout>
```

Explicit-intent:

Activity_main.xml:



```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/and
roid" xmlns:app="http://schemas.android.com/apk/res-
auto" xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
tools:context=".MainActivity">
<EditText
android:id="@+id/name"
android:layout_width="match_pa
rent"
android:layout_height="wrap_co
ntent" android:hint="ENTER
YOUR NAME" /> <Button
android:id="@+id/click"
android:layout_width="match_pa
rent"
android:layout_height="wrap_co
ntent" android:text="click" />
</LinearLayout>
```



mainActivity

```
package com.example.expl; import
androidx.appcompat.app.AppCompatActivity
y; import android.content.Intent; import
android.os.Bundle; import android.view.View;
import android.widget.Button; import
android.widget.EditText; public class
MainActivity extends AppCompatActivity {
EditText name;
Button click; @Override protected void
onCreate(Bundle savedInstanceState)
{ super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
name= findViewById(R.id.name); click=
findViewById(R.id.click);
click.setOnClickListener(new
View.OnClickListener() {
@Override public void
onClick(View view) { Intent it
= new
Intent(MainActivity.this,
```




```
MainActivity2.class);  
  
Bundle b = new Bundle() ;  
b.putString("name",name.getText().to  
String()); it.putExtras(b) ;  
  
startActivity(it);  
  
}  
});  
}  
}
```

```
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout  
  
xmlns:android="http://schemas.android.com/apk/res/and  
roid" 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">  
  
<TextView  
  
android:id="@+id/mytext"  
  
  
android:layout_width="match_parent"  
android:layout_height="wrap_content"  
android:text="NAME COMES HERE"
```



```
android:textSize="40dp"
android:textAlignment="center"
/>
</LinearLayout>
Mainactivity.java
package com.example.expl; import
androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle; import
android.widget.TextView; public class
MainActivity2 extends AppCompatActivity {
TextView myName;
String nameFromFirstActivity="";
@Override protected void onCreate(Bundle
savedInstanceState)
{ super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main2);
myName = findViewById(R.id.mytext);
nameFromFirstActivity =
getIntent().getStringExtra("name");
myName.setText(nameFromFirstActivity);
}
```



Basic calculator:

Activity.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:layout_width="match_parent"
Android:layout_height="match_parent"
Android:layout_margin="20dp"
Android:background="#74a192"
Android:orientation="vertical"
Tools:context=".MainActivity">
<TextView
Android:id="@+id/textView"
Android:layout_width="match_parent"
Android:layout_height="wrap_content"
Android:gravity="center"
Android:layout_marginTop="100dp"
Android:text="CALCULATOR"
Android:textSize="53dp"
/>
<EditText
Android:id="@+id/res"
```



```
Android:layout_width="match_parent"
Android:layout_height="wrap_content"
Android:ems="10"
Android:text="0"
Android:gravity="right"
Android:textSize="40dp"
/>
<LinearLayout
Android:layout_width="match_parent"
Android:layout_height="wrap_content"
Android:orientation="horizontal">
<Button
Android:layout_width="match_parent"
Android:layout_height="100dp"
Android:id="@+id/nine"
Android:text="9" Android:textSize="25dp"
Android:layout_weight="1"
/>
<Button
Android:layout_width="match_parent"
Android:layout_height="100dp"
Android:id="@+id/eight"
Android:text="8"
Android:textSize="25dp"
Android:layout_weight="1"
/>
<Button
Android:layout_width="match_parent"
Android:layout_height="100dp"
Android:id="@+id/seven" Android:text="7"
Android:textSize="25dp"
Android:layout_weight="1"
/>
```



```
<Button
Android:layout_width="match_parent"
Android:layout_height="100dp"
Android:id="@+id/plus"
Android:text="+"
Android:textSize="25dp"
Android:layout_weight="1"
/>
```

```
<?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:layout_width="match_parent"
Android:layout_height="match_parent"
Android:background="@drawable/c1"
Android:orientation="vertical"
Android:layout_margin="20dp"
Tools:context=".MainActivity">
```

```
<TextView
Android:id="@+id/textView2"
Android:layout_marginTop="100dp"
Android:layout_width="match_parent"
Android:layout_height="wrap_content"
Android:text="CALCULATOR" Android:textColor="#f2f2f2"
Android:textSize="40dp"
```



```

Android:gravity="center"
Android:backgroundTint="#6666ff"
/>
<EditText
Android:id="@+id/res"
Android:layout_marginTop="20dp"
Android:layout_width="match_parent"
Android:layout_height="wrap_content"
Android:ems="10"
Android:textColor="#ffffff"
Android:text="0"
Android:textSize="40dp"
Android:gravity="right" Android:backgroundTint="#000000"
/>
<LinearLayout
Android:layout_width="match_parent"
Android:layout_height="wrap_content"
Android:orientation="horizontal">
<Button
Android:layout_width="match_parent"
Android:layout_height="50dp"
Android:id="@+id/nine"
Android:text="9"
Android:textSize="25dp"
Android:layout_weight="1"
Android:backgroundTint="#000000"/>
<Button Android:layout_width="match_parent"
Android:layout_height="50dp"
Android:id="@+id/eight"
Android:text="8"
Android:textSize="25dp"
Android:layout_weight="1"
Android:backgroundTin

```



```
t="#000000"/> <Button  
Android:layout_width="match_parent"  
Android:layout_height="50dp"  
Android:id="@+id/seven"  
Android:text="7"  
Android:textSize="25dp"  
Android:layout_weight="1"  
Android:backgroundTint="#000000 "/>
```

```
<Button  
Android:layout_width="match_parent"  
Android:layout_height="50dp"  
Android:id="@+id/plus"  
Android:text="+"  
Android:textSize="25dp"  
Android:layout_weight="1"  
Android:backgroundTint="#cc5200"/>  
</LinearLayout>  
<LinearLayout  
Android:layout_width="match_parent"  
Android:layout_height="wrap_content"  
Android:orientation="horizontal"> <Button  
Android:layout_width="match_parent"  
Android:layout_height="50dp"  
Android:id="@+id/six"  
Android:text="6"  
Android:textSize="25dp"  
Android:layout_weight="1"  
Android:backgroundTint="#000000  
"/>  
<Button
```



```
Android:layout_width="match_parent"
Android:layout_height="50dp"
Android:id="@+id/five"
Android:text="5"
Android:textSize="25dp" Android:layout_weight="1"
Android:backgroundTint="#000000"
"/>
<Button
Android:layout_width="match_parent"
Android:layout_height="50dp"
Android:id="@+id/four"
Android:text="4"
Android:textSize="25dp"
Android:layout_weight="1"
Android:backgroundTint="#000000"
"/>
<Button
Android:layout_width="match_parent"
Android:layout_height="50dp" Android:id="@+id/minus"
Android:text="-"
Android:textSize="25dp"
Android:layout_weight="1"
Android:backgroundTint="#cc5200"/>

</LinearLayout>
<LinearLayout
Android:layout_width="match_parent"
Android:layout_height="wrap_content"
Android:orientation="horizontal">
<Button
Android:layout_width="match_parent"
```




```
Android:layout_height="50dp"  
Android:id="@+id/three" Android:text="3"  
Android:textSize="25dp"  
Android:layout_weight="1"
```

```
Android:backgroundTint="#000000
```

```
"/>
```

```
<Button
```

```
Android:layout_width="match_parent"
```

```
Android:layout_height="50dp"
```

```
Android:id="@+id/two"
```

```
Android:text="2"
```

```
Android:textSize="25dp"
```

```
Android:layout_weight="1"
```

```
Android:backgroundTint="#000000
```

```
"/>
```

```
<Button
```

```
Android:layout_width="match_parent"
```

```
Android:layout_height="50dp"
```

```
Android:id="@+id/one"
```

```
Android:text="1"
```

```
Android:textSize="25dp"
```

```
Android:layout_weight="1"
```

```
Android:backgroundTint="#000000
```

```
"/>
```

```
<Button
```

```
Android:layout_width="match_parent"
```

```
Android:layout_height="50dp"
```

```
Android:id="@+id/into"
```

```
Android:text="*"
```

```
Android:textSize="25dp" Android:layout_weight="1"
```



```
Android:backgroundTint="#cc5200"/>
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
Android:layout_width="match_parent"
```

```
Android:layout_height="wrap_content"
```

```
Android:orientation="horizontal">
```

```
<Button
```

```
Android:layout_width="match_parent"
```

```
Android:layout_height="50dp"
```

```
Android:id="@+id/zero"
```

```
Android:text="0"
```

```
Android:textSize="25dp"
```

```
Android:layout_weight="1"
```

```
Android:backgroundTint="#000000
```

```
<Button
```

```
Android:layout_width="match_parent"
```

```
Android:layout_height="50dp"
```

```
Android:id="@+id/mod"
```

```
Android:text="%"
```

```
Android:textSize="25dp"
```

```
Android:layout_weight="1"
```

```
Android:backgroundTint="#000000
```

```
<Button
```

```
Android:layout_width="match_parent"
```

```
Android:layout_height="50dp"
```

```
Android:id="@+id/dot" Android:text="."
```

```
Android:textSize="25dp"
```



```
Android:layout_weight="1"
Android:backgroundTint="#000000"
"/>
<Button
Android:layout_width="match_parent"
Android:layout_height="50dp"
Android:id="@+id/devide"
Android:text="/"
Android:textSize="25dp"
Android:layout_weight="1"
Android:backgroundTint="#cc5200"
"/>
```

```
</LinearLayout>
<LinearLayout
Android:layout_width="match_parent"
Android:layout_height="wrap_content"
Android:orientation="horizontal">
<Button
Android:layout_width="match_parent"
Android:layout_height="50dp"
Android:id="@+id/equals"
Android:text="="
Android:textSize="25dp"
Android:layout_weight="1"
Android:backgroundTint="#cc5200"/> </LinearLayout>
<LinearLayout
Android:layout_width="match_parent"
Android:layout_height="wrap_content"
Android:orientation="horizontal">
<Button
```



```
Android:layout_width="match_parent"
Android:layout_height="50dp"
Android:id="@+id/CLEAR"
Android:text="CLEAR"
Android:textSize="25dp"
Android:layout_weight="1"
Android:backgroundTint="#cc5200"/>
</LinearLayout>
</LinearLayout>
```

Main activity.xml

```
Package com.example.exp_2p;
Import androidx.appcompat.app.AppCompatActivity;
Import android.os.Bundle;
Import android.view.View;
Import android.widget.Button;
Import android.widget.EditText;
Public class MainActivity extends AppCompatActivity
implements View.OnClickListener {
Button
nine,eight,seven,six,five,four,three,two,one,zero,dot,plus,mi
nus,into,divide,mod,equals,CLEAR;
```

```
EditText res;
String operatorPressed="";
@Override
Protected void onCreate(Bundle
```



```
savedInstanceState)
{ Super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
res=findViewById(R.id.res);
nine=findViewById(R.id.nine);
eight=findViewById(R.id.eight);
seven=findViewById(R.id.seven);
six=findViewById(R.id.six);
five=findViewById(R.id.five);
four=findViewById(R.id.four);
three=findViewById(R.id.three);
two=findViewById(R.id.two);
one=findViewById(R.id.one);
zero=findViewById(R.id.zero);
plus=findViewById(R.id.plus);
minus=findViewById(R.id.minus);
into=findViewById(R.id.into);
divide=findViewById(R.id.divide);
mod=findViewById(R.id.mod);
dot=findViewById(R.id.dot);
equals=findViewById(R.id.equals);
CLEAR=findViewById(R.id.CLEAR);
Nine.setOnClickListener(this);
Eight.setOnClickListener(this);
Seven.setOnClickListener(this);
Six.setOnClickListener(this);
Five.setOnClickListener(this);
Four.setOnClickListener(this);
Three.setOnClickListener(this);
Two.setOnClickListener(this);
One.setOnClickListener(this);
Zero.setOnClickListener(this);
Plus.setOnClickListener(this);
```



```

Minus.setOnClickListener(this);
Into.setOnClickListener(this);
Devide.setOnClickListener(this);
Mod.setOnClickListener(this);
Dot.setOnClickListener(this);
Equals.setOnClickListener(this);
CLEAR.setOnClickListener(this);
}
@Override
Public void onClick(View view) {
Switch (view.getId()){
Case R.id.nine:res.append("9");break; Case
R.id.eight:res.append("8");break;
Case R.id.seven:res.append("7");break;
Case R.id.six:res.append("6");break;
Case R.id.five:res.append("5");break;
Case R.id.four:res.append("4");break;
Case R.id.three:res.append("3");break;
Case R.id.two:res.append("2");break;
Case R.id.one:res.append("1");break;
Case R.id.zero:res.append("0");break;
Case R.id.plus:res.append("+");operatorPressed="+";break;
Case R.id.minus:res.append("-");operatorPressed="-";break;
Case R.id.into:res.append("*");operatorPressed="*";break;
Case
R.id.devide:res.append("/");operatorPressed="/";break;
Case R.id.mod:res.append("%");operatorPressed="÷";break;
Case R.id.CLEAR:res.setText("");break;
Case R.id.equals:
Double
finalres=compute(res.getText().toString(),operatorPressed)
;
Res.setText(String.valueOf(finalres));

```



```

}
}
Private double compute(String toString, String
operatorPressed) {
String mArray[]=toString.split("\\+|-|\\*|\\/|\\%");
Double
op1=Double.parseDouble((m
Array[0])); Double
op2=Double.parseDouble((m
Array[1]));
Switch(operatorPressed){
Case "+":return op1+op2;
Case "-":return op1-op2;
Case "*":return op1*op2;
Case "/":return op1/op2;
Case "%":return op1%op2;
}
Return 0.0;
}
}

```

SQLITE



Mainactivity.java

```
package com.example.sqlite;
```

```
import
```

```
androidx.appcompat.app.AppC
```

```
ompatActivity;
```

```
import
```

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

```
import
```

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

```
import
```

```
android.widget.Bu
```

```
ttton; import
```

```
android.widget.Ed
```

```
itText; import
```

```
android.widget.Te
```

```
xtView; import
```

```
android.widget.To
```

```
ast;
```

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

```
    Button register,update,delete,display, login;
```

```
    EditText uname,
```

```
upass;    TextView
```

```
res;
```

```
    private static final String
```

```
dbName="studentdb"; // Database Name
```

```
    private static final String
```

```
tbName="student" ; // Table Name
```

```
    private static final int dbVersion = 1 ;
```




```

        DBHelper myDbHelper ;
@Override    protected void
onCreate(Bundle
savedInstanceState)
{    super.onCreate(savedInsta
nceState);
setContentView(R.layout.activity_
main);

```

```

setContentView(R.layout.a
ctivity_main);
register=findViewById(R.id.
register);    update =
findViewById(R.id.update);
delete =
findViewById(R.id.delete) ;
display =
findViewById(R.id.display) ;
login =
findViewById(R.id.login) ;
res = findViewById(R.id.res)
;    uname =
findViewById(R.id.uname) ;
upass =
findViewById(R.id.upass) ;
register.setOnClickListener(
new
View.OnClickListener() {
    @Override    public void onClick(View
view) {    myDbHelper = new
DbHelper(MainActivity.this,dbName, null, dbVersion);
long val =

```



```

myDbHelper.adduser(uname.getText().toString(),
upass.getText().toString());          if(val == -1){
    Toast.makeText(MainActivity.this, "Error",
Toast.LENGTH_SHORT).show();
    }else{
        Toast.makeText(MainActivity.this, "inserted",
Toast.LENGTH_SHORT).show();
    }
}

});

update.setOnClickListener(new View.OnClickListener()
{
    @Override      public void onClick(View
view) {          myDbHelper = new
DbHelper(MainActivity.this,dbName, null, dbVersion);
myDbHelper.update(uname.getText().toString(),upas
s.getText().toString());
    }

});

delete.setOnClickListener(new View.OnClickListener()
{
    @Override      public void onClick(View
view) {          myDbHelper = new
DbHelper(MainActivity.this,dbName, null, dbVersion);
myDbHelper.delete(uname.getText().toString());
    }

});

display.setOnClickListener(new View.OnClickListener()
{
    @Override
public void

```



```

onClick(View view) {
    myDbHelper = new
    DbHelper(MainActivity.this,dbName, null, dbVersion);
    String value = myDbHelper.display(MainActivity.this);
    res.setText(value);
    }
});

}
}

```

DbHelper.java

```

package com.example.sqlite;

import
android.content.ContentValue
s; import
android.content.Context;
import
android.database.Cursor;
import
android.database.sqlite.SQLit
eDatabase; import
android.database.sqlite.SQLit
eOpenHelper; import
androidx.annotation.Nullable;

public class DbHelper extends SQLiteOpenHelper {
    private static final String dbName =
    "studentdb"; // Database Name    private
    static final String tbName = "student"; //
    Table Name    private static final int

```



```
dbVersion = 1;
```

```
public DBHelper(@Nullable Context context,  
@Nullable String name, @Nullable  
SQLiteDatabase.CursorFactory factory, int version)  
{  
    super(context, name, factory, version);  
}
```

```
@Override public void  
onCreate(SQLiteDatabase  
db) {  
    db.execSQL("CREATE TABLE " + tbName + "(uname  
VARCHAR(10),passw VARCHAR(10))" + ";");  
}
```

```
@Override public void  
onUpgrade(SQLiteDatabase db, int prev_v,  
int new_v) {  
    db.execSQL("DROP TABLE  
IF EXISTS " + tbName);  
    onCreate(db);  
}
```

```
public long adduser(String name, String pass) {  
    SQLiteDatabase sqLiteDatabase =  
this.getWritableDatabase();  
ContentValues cv = new ContentValues();  
cv.put("uname", name);  
cv.put("passw ", pass);  
long result =  
sqLiteDatabase.insert(tbName, null, cv);  
sqLiteDatabase.close();  
return result;  
}
```

```
public void delete(String name) {  
    SQLiteDatabase sqLiteDatabase =  
this.getWritableDatabase(); // 7(a)
```



```

sqliteDatabase.execSQL("DELETE FROM " + tbName + "
WHERE uname="" + name
+
"
';
")
;
/
/
7
(
b)
// SQL statement : DELETE FROM tbName WHERE
uname='name';      sqliteDatabase.close(); // 7(c)
}

public void update(String name, String pass) {
    SQLiteDatabase sqliteDatabase =
this.getWritableDatabase(); //6(a)
sqliteDatabase.execSQL("UPDATE " + tbName + " SET
passw="" + pass + "" + "
WHERE uname="" + name + "";" );//6(b)
// UPDATE tbName SET passw='pass' WHERE
uname='name'; SQL statement
sqliteDatabase.close(); // 6(c)
}

public String display(Context ctx) {
    SQLiteDatabase sqliteDatabase =
this.getReadableDatabase(); //8(a)
    Cursor cursor = sqliteDatabase.rawQuery("SELECT *
FROM " + tbName, null); //8(b)
    String finalres = " ";    while
(cursor.moveToNext()) { //8(c)

```



```
finalres += cursor.getString(0) + ":" +  
cursor.getString(1); // 8(d)  
    }  
return  
finalres;  
    }  
}
```

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>  
  
<LinearLayout  
  
xmlns:android="http://schemas.android.com/a  
  
pk/res/android"  
  
xmlns:app="http://schemas.android.com/apk/r  
  
es-auto"  
  
xmlns:tools="http://schemas.android.com/tool  
  
s"    android:layout_width="match_parent"  
  
android:layout_height="match_parent"  
  
android:orientation="vertical"  
  
tools:context=".MainActivity">  
  
    <EditText
```



```
android:id="@+id/uname"
"
android:layout_width="m
atch_parent"
android:layout_height="w
rap_content"
android:ems="10"
android:inputType="textP
ersonName"
android:text="Name" />
```

```
<EditText
android:id="@+id/upass"
android:layout_width="m
atch_parent"
android:layout_height="w
rap_content"
android:ems="10"
```



```
android:inputType="textP  
ersonName"  
android:text="Name" />
```

```
<Button  
android:id="@+id/login"  
android:layout_width="m  
atch_parent"  
android:layout_height="w  
rap_content"  
android:text="Button" />
```

```
<Button  
android:id="@+id/reg  
ister"  
android:layout_width  
="match_parent"  
android:layout_height  
="wrap_content"
```




```
android:text="Button"
```

```
/>
```

```
<Button
```

```
android:id="@+id/delete"
```

```
android:layout_width="m
```

```
atch_parent"
```

```
android:layout_height="w
```

```
rap_content"
```

```
android:text="Button" />
```

```
<Button
```

```
android:id="@+id/update
```

```
"
```

```
android:layout_width="m
```

```
atch_parent"
```

```
android:layout_height="w
```

```
rap_content"
```

```
android:text="Button" />
```



```
<Button  
    android:id="@+id/display"  
    "  
    android:layout_width="m  
    atch_parent"  
    android:layout_height="w  
    rap_content"  
    android:text="Button" />
```

```
<TextView  
    android:id="@+id/res"  
    android:layout_width="m  
    atch_parent"  
    android:layout_height="w  
    rap_content"  
    android:text="TextView"  
/>
```

MEDIAPLAYER:



Activitymain.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/a
pk/res/android"
xmlns:app="http://schemas.android.com/apk/r
es-auto"
xmlns:tools="http://schemas.android.com/tool
s"    android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="#80b3ff"
tools:context=".MainActivity"
android:orientation="vertical">

    <TextView

android:layout_width="match_pa
rent"
android:layout_height="wrap_con
tent"
android:text="@string/songname
"

android:id="@+id/songname"
android:layout_margin="30dp"
android:fontFamily="cursive"
android:textSize="40dp"
android:gravity="center"
android:textStyle="bold"
    />
    <Button
android:layout_width="match
_parent"
android:layout_height="wrap_
```



```
content"
    android:text="Play"
    android:id="@+id/play"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:backgroundTint="#ff99ff"/>
```

```
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Pause"
    android:id="@+id/pause"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:backgroundTint="#ff99ff"/>
```

```
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="forward"
    android:id="@+id/forward"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:backgroundTint="#ff99ff"
```



"/>

```
<Button
android:layout_width="match
_parent"
android:layout_height="wrap_
content"
android:text="Backward"
android:id="@+id/rewind"
android:layout_marginLeft="3
0dp"
android:backgroundTint="#ff
99ff"
android:layout_marginRight="
30dp" /> <Button
android:layout_width="match
_parent"
android:layout_height="wrap_
content"
android:backgroundTint="#ff
99ff"      android:text="stop"
android:id="@+id/stop"
android:layout_marginLeft="3
0dp"
android:layout_marginRight="
30dp" />

</LinearLayout>
```

Mainactivity.java



```

package com.example.mp;

import

androidx.appcompat.app.AppCo

mpatActivity;

import
android.media.Media
Player; import
android.os.Bundle;
import
android.view.View;
import
android.widget.Butto
n; import
android.widget.Toast;

public class MainActivity extends
AppCompatActivity {
    Button
play,pause,stop,backward,forward;
    MediaPlayer
mediaPlayer;
int fwTime = 5000;
int rwTime =
5000; int
startTime=0;
@Override
protected void
onCreate(Bundle savedInstanceState)
{
    super.onCreate(savedInstanc

```



```

eState);
setContentView(R.layout.activity_m
ain);
play = findViewById(R.id.play);
pause = findViewById(R.id.pause);
stop = findViewById(R.id.stop);
backward =
findViewById(R.id.rewind);
forward =
findViewById(R.id.forward);
play.setOnClickListener(new
View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Toast.makeText(MainActivity.this, "Playing Media
now", Toast.LENGTH_SHORT).show();
mediaPlayer =
MediaPlayer.create(MainActivity.this, R.raw.song);
mediaPlayer.start();
    }
});

```

```

pause.setOnClickListener((new
View.OnClickListener() {
    @Override
    public void onClick(View v) {
    }
}));
stop.setOnClickListener(new
View.OnClickListener() {
    @Override
    public void onClick(View v) {        int
currentPosition =
mediaPlayer.getCurrentPosition();

```



```

if (currentPosition+fwTime <=
mediaPlayer.getDuration())
{

mediaPlayer.seekTo(currentPosition+f
wTime);
}
});

```

```

forward.setOnClickListener(new
View.OnClickListener() {    @Override
    public void onClick(View v) {
        int currentPosition =
mediaPlayer.getCurrentPosition();
        if
(currentPosition+fwTime<=mediaPlay
er.getDuration())
        {

```

```

mediaPlayer.seekTo(currentPosition+f
wTime);

```

```

} }

```

```

});

```

```

backward.setOnClickListener(new
View.OnClickListener() {
    @Override
    public void
onClick(View v) {
        int currentPosition =
mediaPlayer.getCurrentPosition();

```




```
if(currentPosition-rwTime >=
startTime){

mediaPlayer.seekTo(currentPosition-
rwTime);
    }
}
});}}
```

Strings.xml

```
<resources>
    <string
name="app_name">Mp</string>
    <string
name="songname">song</string>
</resources>
```

Mainactivity.java

```
package com.example.papp;
```

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

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



```
android.view.View; import
android.widget.Button; import
android.widget.EditText; import
android.widget.TextView; import
android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
    EditText nameText;
    Button click;
    TextView MyLabel;
    @Override    protected void onCreate(Bundle
savedInstanceState)
{
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    nameText=findViewById(R.id.ed);
    click=findViewById(R.id.btn);
    MyLabel=findViewById(R.id.textView);
    click.setOnClickListener(new
View.OnClickListener(){
        @Override        public void
onClick(View view){
            String name=nameText.getText().toString();
            MyLabel.setText(name);
            Toast.makeText(MainActivity.this,name+"is
```



```
happy",  
        Toast.LENGTH_LONG).show();  
    }  
});
```

Alert dialogue

```
\<?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:layout_width="match_parent"  
    android:layout_height="match_parent"  
  
    android:orientation="vertical"  
  
    tools:context=".MainActivity">  
    <TextView  
  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
  
        android:text="ALERT MESSAGE"  
  
        app:layout_constraintBottom_toBottom
```



```

Of="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/alert"
    android:layout_marginRight="30dp"
    android:layout_marginLeft="30dp"
    android:text="CLICKTOALERT"
/>
</LinearLayout>

```

Mainactivity.java

```

package com.example.alertd; import
androidx.appcompat.app.AlertDialog;
import
androidx.appcompat.app.AppCompatActivity

```



```
ty; 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 alertButton ; @Override protected void
onCreate(Bundle savedInstanceState)
{ super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
alertButton = findViewById(R.id.alert) ;
alertButton.setOnClickListener(new
View.OnClickListener() {
@Override public void onClick(View v)
{ alertButton = findViewById(R.id.alert) ;
alertButton.setOnClickListener(new
View.OnClickListener() {
@Override
public void onClick(View v) {

//logic for Alert

AlertDialog.Builder builder = new
```



```

AlertDialog.Builder(MainActivity.this) ;

builder.setIcon(R.drawable.ic_launcher_background) ;

builder.setTitle("Alert Title") ; builder.setMessage("Shall

I Close this window, Y/N?") ;

builder.setPositiveButton("Yes", new

DialogInterface.OnClickListener() {

@Override
public void onClick(DialogInterface dialog, int which) {
Toast.makeText(MainActivity.this, "You have pressed
yes",
Toast.LENGTH_SHORT).show();
}
}); builder.setNegativeButton("No", new

DialogInterface.OnClickListener() {

@Override
public void onClick(DialogInterface dialog, int which)
{finish(); } }); AlertDialog alertDialog=builder.create();
alertDialog.show(); }
}
); }
}
); }
}

```



IMAGE SWITCHER

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/a
ndroid"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
tools:context=".MainActivity">
<ImageView android:id="@+id/myImg"
android:layout_width="match_parent"
android:layout_height="400dp"
android:layout_margin="20dp"
android:src="@drawable/p1"
app:layout_constraintBottom_toBottom
Of="parent"
app:layout_constraintEnd_toEndOf="par
ent"
```



```
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<Button
android:id="@+id/click"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="click"
tools:layout_editor_absoluteX="20dp"
tools:layout_editor_absoluteY="631dp" />
</LinearLayout>
```

main_activity.java

```
package com.example.imgswitch; import
androidx.appcompat.app.AppCompatActivity; import
android.os.Bundle; import
android.view.View; import
android.widget.Button; import
android.widget.ImageView;

public class MainActivity extends
```




```

AppCompatActivity {
    ImageView imageView;

    Button change; int flag
    = 1;

    @Override protected void onCreate(Bundle
    savedInstanceState)
    { super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    imageView = findViewById(R.id.myImg);
    change = findViewById(R.id.click);
    change.setOnClickListener(new
    View.OnClickListener() {
        @Override public void
        onClick(View v)
        { if(flag==1){ imageView.se
        tImageResource(R.drawabl
        e.p1); flag=2 ;
        }else{ imageView.setImag
        eResource(R.drawable.p3);
        flag=1 ;
        }
    }
}

```



```
}  
});  
}  
}
```

LIST VIEW:

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:layout_width="match_parent"  
android:layout_height="match_parent"  
android:orientation="vertical"  
tools:context=".MainActivity">  
  
<ListView  
  
android:layout_width="match_paren
```




```

setContentView(R.layout.activity_main);

myList = findViewById(R.id.list) ; countryList
=
getResources().getStringArray(R.array.count
ry) ;

ArrayAdapter<String> arrayAdapter =
new ArrayAdapter<String>(this,
R.layout.textview_layout, countryList);
myList.setAdapter(arrayAdapter);
myList.setOnItemClickListener(new

AdapterView.OnItemClickListener() {
@Override public void onItemClick(AdapterView<?> parent,
View view, int position, long id) {
Toast.makeText(MainActivity.this, "You have
clicked:"+parent.getItemAtPosition(position),
Toast.LENGTH_SHORT).show();
}
});

}
}

```



textview_layout.xml

```
<?xml version="1.0" encoding="utf-8"?>
<TextView
xmlns:android="http://schemas.android.co
m/apk/res/android"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:text="Content"
android:textSize="40dp"
/> strings.xml
```

```
<resources>
<string name="app_name">listv</string>
<string-array name="country">
<item>India</item>
<item>China</item>
<item>Pakistan</item>
<item>USA</item>
<item>UK</item>
</string-array>
</resources>
```





Edit with WPS Office



Edit with WPS Office