

ANDROID APPLICATION LIFE CYCLE

```
package com.example.android.lifecycle;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.widget.Toast;
public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Toast.makeText(getApplicationContext(), "I am create method",
            Toast.LENGTH_LONG).show();
    }
    @Override
    protected void onStart() {
        // TODO Auto-generated method stub
        super.onStart();
        Toast.makeText(getApplicationContext(), "I am start method",
            Toast.LENGTH_LONG).show();
    }
    @Override
    protected void onResume() {
        // TODO Auto-generated method stub
        super.onResume();
        Toast.makeText(getApplicationContext(), "I am resume method",
            Toast.LENGTH_LONG).show();
    }

    @Override
    protected void onStop() {
        // TODO Auto-generated method stub
        super.onStop();
        Toast.makeText(getApplicationContext(), "I am stop method",
            Toast.LENGTH_LONG).show();
    }
    @Override
    protected void onPause() {
        // TODO Auto-generated method stub
        super.onPause();
        Toast.makeText(getApplicationContext(), "I am pause method",
            Toast.LENGTH_LONG).show();
    }
    @Override
    protected void onRestart() {
        // TODO Auto-generated method stub
        super.onRestart();
        Toast.makeText(getApplicationContext(), "I am restart method",
            Toast.LENGTH_LONG).show();
    }
}
```

```

    }
    @Override
    protected void onDestroy() {
        // TODO Auto-generated method stub
        super.onDestroy();
        Toast.makeText(getApplicationContext(), "I am destroy method",
        Toast.LENGTH_LONG).show();
    }
}

```

2) calculator

```
package com.example.cal;
```

```

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

```

```

public class MainActivity extends Activity {
    private EditText edittext1,edittext2;
    private Button Btn_Add ;
    private Button Btn_Sub ;
    private Button Btn_Mul ;
    private Button Btn_Div ;

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

    public void addListenerOnButton(){
        edittext1=(EditText)findViewById(R.id.editText1);
        edittext2=(EditText)findViewById(R.id.editText2);
        Btn_Add=(Button)findViewById(R.id.button1);
        Btn_Sub=(Button)findViewById(R.id.button2);
        Btn_Mul=(Button)findViewById(R.id.button3);
        Btn_Div=(Button)findViewById(R.id.button4);

```

```

        Btn_Add.setOnClickListener(new OnClickListener(){

```

```

@Override
public void onClick(View view) {
    String value1=edittext1.getText().toString();
    String value2=edittext2.getText().toString();
    int a=Integer.parseInt(value1);
    int b=Integer.parseInt(value2);
    int sum=a+b;

    Toast.makeText(getApplicationContext(),String.valueOf(sum),Toast.LENGTH_LONG).show();
}

});
Btn_Sub.setOnClickListener(new OnClickListener(){

    @Override
    public void onClick(View view) {
        String value1=edittext1.getText().toString();
        String value2=edittext2.getText().toString();
        int a=Integer.parseInt(value1);
        int b=Integer.parseInt(value2);
        int sub=a-b;

        Toast.makeText(getApplicationContext(),String.valueOf(sub),Toast.LENGTH_LONG).show();
    }

});

Btn_Mul.setOnClickListener(new OnClickListener(){

    @Override
    public void onClick(View view) {
        String value1=edittext1.getText().toString();
        String value2=edittext2.getText().toString();
        int a=Integer.parseInt(value1);
        int b=Integer.parseInt(value2);
        int m=a*b;

        Toast.makeText(getApplicationContext(),String.valueOf(m),Toast.LENGTH_LONG).show();
    }

});

Btn_Div.setOnClickListener(new OnClickListener(){

    @Override
    public void onClick(View view) {
        String value1=edittext1.getText().toString();
        String value2=edittext2.getText().toString();

```

```

        int a=Integer.parseInt(value1);
        int b=Integer.parseInt(value2);
        int n=a/b;

        Toast.makeText(getApplicationContext(),String.valueOf(n),Toast.LENGTH_LONG).show();
    }

    });
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}

}

```

3) sms

```

package com.example.sms;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.content.Intent;
import android.net.Uri;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends Activity {
    private EditText phoneNumber;

    private EditText smsBody;

    //private Button smsManagerBtn;

    private Button smsSendToBtn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        phoneNumber = (EditText) findViewById(R.id.editText1);
        smsBody = (EditText) findViewById(R.id.editText2);
        //smsManagerBtn = (Button) findViewById(R.id.button1);
    }
}

```

```
    smsSendToBtn = (Button) findViewById(R.id.button1);
```

```
        smsSendToBtn.setOnClickListener(new OnClickListener() {  
            public void onClick(View view) {  
                sendSmsBySIntent();  
            }  
        });}
```

```
public void sendSmsBySIntent() {
```

```
    // add the phone number in the data
```

```
        Uri uri = Uri.parse("smsto:" + phoneNumber.getText().toString());  
        Intent smsSIntent = new Intent(Intent.ACTION_SENDTO, uri);
```

```
    // add the message at the sms_body extra field
```

```
    smsSIntent.putExtra("sms_body", smsBody.getText().toString());
```

```
    try{
```

```
        startActivity(smsSIntent);
```

```
    } catch (Exception ex) {
```

```
        Toast.makeText(MainActivity.this, "Your sms has failed...",
```

```
        Toast.LENGTH_LONG).show();
```

```
        ex.printStackTrace();
```

```
    }
```

```
}
```

```
@Override
```

```
    public boolean onCreateOptionsMenu(Menu menu) {  
        // Inflate the menu; this adds items to the action bar if it is present.  
        getMenuInflater().inflate(R.menu.main, menu);  
        return true;  
    }
```

```
}
```

4)password

```
package com.example.pass;

import android.os.Bundle;
import android.app.Activity;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends Activity {
    EditText uname, pass;
    Button blog, bclear;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        uname = (EditText) findViewById(R.id.editText1);
        pass = (EditText) findViewById(R.id.editText2);
        blog = (Button) findViewById(R.id.button1);
        bclear = (Button) findViewById(R.id.button2);

        blog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View arg0) {
                String na = uname.getText().toString();
                String p = pass.getText().toString();
                if (na.equals("admin") && p.equals("admin")) {
                    Toast.makeText(getApplicationContext(), "Authenticated...",
Toast.LENGTH_LONG).show();
                } else {
                    Toast.makeText(getApplicationContext(), "Unauthenticated...",
Toast.LENGTH_LONG).show();
                    uname.setText("");
                    pass.setText("");
                }
            }
        });

        bclear.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View arg0) {
                uname.setText("");
                pass.setText("");
            }
        });
    }
}
```

5)multiple activity

```
import android.os.Bundle;

import android.app.Activity;

import android.content.Intent;

import android.view.View;

import android.widget.Button;

public class MainActivity extends Activity {

    Intent in;

    Button b1;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        b1=(Button)findViewById(R.id.button1);

        b1.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View arg0) {

                // TODO Auto-generated method stub

                in = new Intent(MainActivity.this, Second_Activity.class);

                startActivity(in);

            }

        });

    }

}

package com.example.multiple;

import android.app.Activity;

import android.os.Bundle;

public class Second_Activity extends Activity {
```

@Override

```
protected void onCreate(Bundle savedInstanceState) {  
    // TODO Auto-generated method stub  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.second_layout);  
}  
}
```

6) passing parameter

MainActivity.java

```
package com.example.parameter;  
  
import android.os.Bundle;  
import android.app.Activity;  
import android.content.Intent;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class MainActivity extends Activity {  
    EditText uname, pass;  
    Button blog, bclear;  
    Intent in;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        uname=(EditText)findViewById(R.id.editText1);  
        pass=(EditText)findViewById(R.id.editText2);  
        blog=(Button)findViewById(R.id.button1);
```



```

bclear=(Button)findViewById(R.id.button2);

blog.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View arg0) {

// TODO Auto-generated method stub

String na=username.getText().toString();

String p=pass.getText().toString();

if(na.equals("admin") && p.equals("admin"))

{

Toast.makeText(getApplicationContext(),

"Authenticated...", Toast.LENGTH_LONG).show();

in=new

Intent(getApplicationContext(),SecondActivity.class);

in.putExtra("myName", na);

startActivity(in);

}

else

{

Toast.makeText(getApplicationContext(), "Un

Authenticated...", Toast.LENGTH_LONG).show();

username.setText("");

pass.setText("");

}

}

});

bclear.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View arg0) {

```

```
// TODO Auto-generated method stub
uname.setText("");
pass.setText("");
}
});
}
}
```

Second Activity.java

```
package com.example.parameter;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
import android.widget.Toast;

public class SecondActivity extends Activity {

    TextView tv;

    String na;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        // TODO Auto-generated method stub

        super.onCreate(savedInstanceState);

        setContentView(R.layout.second_activity);

        tv=(TextView)findViewById(R.id.textView2);

        Intent in=getIntent();

        na=in.getStringExtra("myName");

        tv.setText("welcome"+" \t"+na);

    }
```

7)notify

```

package com.example.notify;

import android.os.Bundle;
import android.app.Activity;
import android.app.NotificationManager;
import android.content.Context;
import android.support.v4.app.NotificationCompat;
import android.view.View;

public class MainActivity extends Activity {

    @Override

        protected void onCreate(Bundle savedInstanceState) {

            super.onCreate(savedInstanceState);

            setContentView(R.layout.activity_main);

            sendNotification(null);

        }


        public void sendNotification(View view) {

            //Get an instance of NotificationManager//

            NotificationCompat.Builder mBuilder = new NotificationCompat.Builder(this)

                .setSmallIcon(R.drawable.ic_launcher)

                .setContentTitle("My notification")

                .setContentText("Hello World!");

            // Gets an instance of the NotificationManager service//

            NotificationManager mNotificationManager =
(NotificationManager)getSystemService(Context.NOTIFICATION_SERVICE);

            // NotificationManager.notify().

            mNotificationManager.notify(001, mBuilder.build());

        }

```

```
}
```

8)student database

```
package com.example.studentinfo;

import com.example.studentinfo.R.id;

import android.app.Activity;

import android.app.AlertDialog.Builder;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.view.View;

import android.view.View.OnClickListener;

import android.widget.Button;

import android.widget.EditText;


public class MainActivity extends Activity implements OnClickListener
{
    EditText Rollno,Name,Marks;

    Button Insert,Delete,Update,View,ViewAll;

    SQLiteDatabase db;

    /** Called when the activity is first created. */

    @Override

    public void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        Rollno=(EditText)findViewById(R.id.Rollno);

        Name=(EditText)findViewById(R.id.Name);
```

```

Marks=(EditText)findViewById(R.id.Marks);
Insert=(Button)findViewById(R.id.Insert);
Delete=(Button)findViewById(R.id.Delete);
Update=(Button)findViewById(R.id.Update);
View=(Button)findViewById(R.id.View);
//ViewAll=(Button)findViewById(R.id.ViewAll);
ViewAll=(Button)findViewById(R.id.ViewAll);
Insert.setOnClickListener(this);
Delete.setOnClickListener(this);
Update.setOnClickListener(this);
View.setOnClickListener(this);
ViewAll.setOnClickListener(this);
// Creating database and table
db=openOrCreateDatabase("StudentDB", Context.MODE_PRIVATE, null);
db.execSQL("CREATE TABLE IF NOT EXISTS student(rollno VARCHAR,name
VARCHAR,marks VARCHAR);");
}
private Button findViewById(Class<id> class1) {
    // TODO Auto-generated method stub
    return null;
}
public void onClick(View view)
{
    // Inserting a record to the Student table
    if(view==Insert)
    {
        // Checking for empty fields
        if(Rollno.getText().toString().trim().length()==0 ||
            Name.getText().toString().trim().length()==0 ||

```

```

        Marks.getText().toString().trim().length()==0)
    {
        showMessage("Error", "Please enter all values");
        return;
    }
    db.execSQL("INSERT INTO student VALUES('"+Rollno.getText()+"','"+Name.getText()+"',
        '"+Marks.getText()+"');");
    showMessage("Success", "Record added");
    clearText();
}

// Deleting a record from the Student table
if(view==Delete)
{
    // Checking for empty roll number
    if(Rollno.getText().toString().trim().length()==0)
    {
        showMessage("Error", "Please enter Rollno");
        return;
    }

    Cursor c=db.rawQuery("SELECT * FROM student WHERE
rollno='"+Rollno.getText()+"'", null);

    if(c.moveToFirst())
    {
        db.execSQL("DELETE FROM student WHERE rollno='"+Rollno.getText()+"'");
        showMessage("Success", "Record Deleted");
    }
    else
    {
        showMessage("Error", "Invalid Rollno");
    }
}

```

```

    }

    clearText();
}

// Updating a record in the Student table
if(view==Update)
{
    // Checking for empty roll number
    if(RollNo.getText().toString().trim().length()==0)
    {
        showMessage("Error", "Please enter Rollno");

        return;
    }

    Cursor c=db.rawQuery("SELECT * FROM student WHERE
rollNo='"+RollNo.getText()+"'", null);

    if(c.moveToFirst()) {

        db.execSQL("UPDATE student SET name='"+ Name.getText() + "',marks='"+
Marks.getText() +

        "' WHERE rollNo='"+RollNo.getText()+"'");

        showMessage("Success", "Record Modified");
    }

    else {

        showMessage("Error", "Invalid Rollno");
    }

    clearText();
}

// Display a record from the Student table
if(view==View)
{
    // Checking for empty roll number

```

```

if(Rollno.getText().toString().trim().length()==0)
{
    showMessage("Error", "Please enter Rollno");
    return;
}

Cursor c=db.rawQuery("SELECT * FROM student WHERE
rollno='"+Rollno.getText()+"'", null);

if(c.moveToFirst())
{
    Name.setText(c.getString(1));
    Marks.setText(c.getString(2));
}
else
{
    showMessage("Error", "Invalid Rollno");
    clearText();
}
}

// Displaying all the records
if(view==ViewAll)
{
    Cursor c=db.rawQuery("SELECT * FROM student", null);
    if(c.getCount()==0)
    {
        showMessage("Error", "No records found");
        return;
    }

    StringBuffer buffer=new StringBuffer();
    while(c.moveToNext())

```



```

        {
            buffer.append("Rollno: "+c.getString(0)+"\n");
            buffer.append("Name: "+c.getString(1)+"\n");
            buffer.append("Marks: "+c.getString(2)+"\n\n");
        }
        showMessage("Student Details", buffer.toString());
    }
}

public void showMessage(String title,String message)
{

    Builder builder=new Builder(this);
    builder.setCancelable(true);
    builder.setTitle(title);
    builder.setMessage(message);
    builder.show();
}

public void clearText()
{
    Rollno.setText("");
    Name.setText("");
    Marks.setText("");
    Rollno.requestFocus();
}
}

```

9)web

```

package com.example.web;

import android.os.Bundle;

```

```

import android.view.View;

import android.webkit.WebSettings;

import android.webkit.WebView;

import android.webkit.WebViewClient;

import android.widget.Button;

import android.widget.EditText;

import android.app.Activity;

public class MainActivity extends Activity {

    EditText txturl;

    Button b;

    WebView wv;

    private WebSettings getString;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        txturl=(EditText)findViewById(R.id.editText1);

        b = (Button)findViewById(R.id.button1);

        wv = (WebView)findViewById(R.id.view1);

        //WebSettingswebSettings = wv.getSettings();

        //webSettings.setJavaScriptEnabled(true);

    b.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View arg0) {

            // TODO Auto-generated method stub


            wv.setWebViewClient(new WebViewClient());

            wv.loadUrl("http://" +txturl.getText().toString());

```

```

        }

    });
}

    public WebSettings getGetString() {
        return getString;
    }

    public void setGetString(WebSettings getString) {
        this.getString = getString;
    }
}

```

10)email

```

package com.example.email;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.app.Activity;
import android.content.Intent;

public class MainActivity extends Activity {

    EditText txtTo, txtSub, txtMsg;

    Button b;

    String strTo, strSub, strMsg;

    Intent in;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);
    }
}

```

```

txtTo=(EditText)findViewById(R.id.editText1);
txtSub=(EditText)findViewById(R.id.editText2);
txtMsg=(EditText)findViewById(R.id.editText3);
b=(Button)findViewById(R.id.button1);
b.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        strTo=txtTo.getText().toString();
        strSub=txtSub.getText().toString();
        strMsg=txtMsg.getText().toString();
        in=new Intent(Intent.ACTION_SEND);
        //in.putExtra(Intent.EXTRA_EMAIL, new String[]{strTo});
        in.putExtra(Intent.EXTRA_EMAIL, strTo);
        in.putExtra(Intent.EXTRA_SUBJECT, strSub);
        in.putExtra(Intent.EXTRA_TEXT, strMsg);
        in.setType("message/rfc822");
        startActivity(Intent.createChooser(in, "Choose an email
client..."));});}); }

```