

```

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;
    }
}

```

```

Multiple activity
package com.example.multiple;

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);
    }
}
```

```

life cycle
package com.example.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();
    }

}
```

notification

```
package com.example.notification;
```

```
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
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){
        NotificationCompat.Builder mBuilder=new
NotificationCompat.Builder(this)
        .setSmallIcon(R.drawable.ic_launcher)
        .setContentTitle("My notification")
        .setContentText("Hello world");
        NotificationManager
mNotificationManager=(NotificationManager)getSystemService(Context.NOTIFIC
ATION_SERVICE);
        mNotificationManager.notify(001,mBuilder.build());
    }
```

```
    @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;
    }
```

```
}
```

```

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();
    }
}
```

```

calculator
package com.example.aayushi;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.*;

import java.lang.*;

public class MainActivity extends Activity {

    private EditText edittext1,edittext2;
    private Button Btn_Add,Btn_Sub,Btn_Mul,Btn_Div;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        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() {
            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() {
            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 diff = a-b;
                Toast.makeText(getApplicationContext(),String.valueOf(diff)
,Toast.LENGTH_SHORT).show();
            }
        });
        Btn_Mul.setOnClickListener(new OnClickListener() {
            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 mul=a*b;
                Toast.makeText(getApplicationContext(),String.valueOf(mul),Toast.LE
NGTH_LONG).show();
            }
        });
        Btn_Div.setOnClickListener(new OnClickListener() {
            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 div=a/b;
                Toast.makeText(getApplicationContext(), String.valueOf(div),
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;
}

}
```

Data passing

```
package com.example.datapass;
```

```
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=uname.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();
```

```
    uname.setText("");
```

```
    pass.setText("");
```

```
}
```

```
}
```

```
});
```

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

```
    @Override
```

```
    public void onClick(View arg0) {
```

```
        // TODO Auto-generated method stub
```

```
        uname.setText("");
```

```
        pass.setText("");
```

```
    }
```

```
});
```

```
}
```

```
}
```

```
package com.example.datapass;
```

```
import android.app.Activity;
```

```
import android.content.Intent;
```

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

```
import android.widget.TextView;
```

```
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.textView1);
        Intent in=getIntent();
        na=in.getStringExtra("myName");
        tv.setText("welcome"+" \t"+na);
    }
}
```



```

Validation
package com.example.valid;

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) {
                // TODO Auto-generated method stub

                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) {
                // TODO Auto-generated method stub

                uname.setText("");
                pass.setText("");
            }
        });
    }
}

```

```

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;
        }
    }
}

```