1.Design a Login Page

PROGRAM

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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">
<LinearLayout
android:layout_width="match_parent"
android:layout_height="match_parent" android:orientation="vertical">
<EditText
android:id="@+id/editText"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:ems="10"
android:inputType="textPersonName"
android:text="USERNAME"
android:textColor="@color/colorAccent"
tools:layout_editor_absoluteX="85dp"
tools:layout_editor_absoluteY="54dp" />
<EditText
android:id="@+id/editText2"
```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:ems="10"
android:inputType="textPersonName"
android:text="PASSWORD"
android:textColor="@color/colorAccent"
tools:layout_editor_absoluteX="85dp"
tools:layout_editor_absoluteY="175dp"/>
<Button
android:id="@+id/button"
android:layout_width="120dp"
android:layout_height="wrap_content"
android:background="@color/colorPrimary"
android:text="LOGIN"
android:textSize="30sp"
tools:layout_editor_absoluteX="148dp"
tools:layout_editor_absoluteY="303dp" />
</LinearLayout>
</android.support.constraint.ConstraintLayout>
Main_Activity.java
```

```
package com.example.sjcet.c3;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
```

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



2. Change content in the text view on a button click

PROGRAM

Activity_main.xml

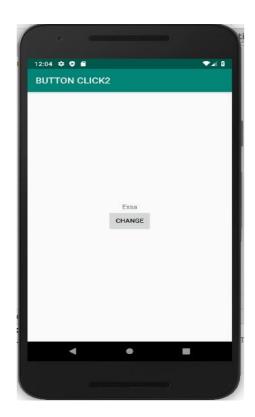
```
<LinearLayout
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
android:gravity="center"
xmlns:android="http://schemas.android.c
om/apk/res/android">
<TextView
android:id="@+id/tv"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="ANU"/>
<Button
android:id="@+id/btn1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Change"
android:onClick="change"/>
</LinearLayout>
```

Main_Activity.java

```
package com.example.sjcet.buttonclick2;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
TextView tv;
@Override
protected void onCreate(Bundle savedInstanceState) {
```

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```
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
tv = findViewById(R.id.tv);
}
public void change(View view) {
tv.setText("Essa");
}
```



3. Read a value from edit text and print it in a text view

PROGRAM

Activity main.xml

```
<LinearLayout
android:layout_height="match_parent"
android:layout_width="match_parent"
android:orientation="vertical"
xmlns:android="http://schemas.android.com/apk/res/android">
<EditText
android:id="@+id/text1"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:hint="Enter Text"/>
<Button
android:id="@+id/btn"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Change"
android:onClick="Click"
/>
<TextView
android:id="@+id/text2"
android:layout_width="match_parent"
android:layout_height="wrap_content"
/>
```

</LinearLayout>

Main_Activity.java

```
package com.example.sjcet.c3;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
EditText text1;
TextView text2;
Button btn;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
text1=(EditText)findViewById(R.id.text1);
btn=(Button)findViewById(R.id.btn);
text2=(TextView)findViewById(R.id.text2);
}
public void Click(View view) {
String content= text1.getText().toString();
text2.setText(content);
```

}



4. change the baground color on a button click

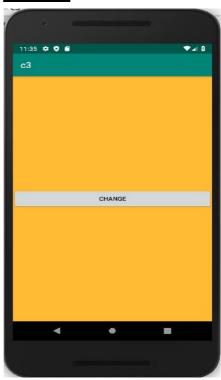
PROGRAM

Activity_main.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_gravity="center">
<Button
android:id="@+id/bt"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout gravity="center"
android:onClick="click"
android:text="CHANGE" />
</LinearLayout>
Main_Activity.java
package com.example.sjcet.background;
import android.widget.Button;
import android.view.View;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
View v;
Button bt:
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
v= this.getWindow().getDecorView();
bt=(Button) findViewById(R.id.bt);
```

}

```
public void click(View view) {
  v.setBackgroundResource(android.R.color.holo_orange_light);
}
```



5. Create a simple calculator

PROGRAM

Activity_Main.java

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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">
<EditText
 android:id="@+id/ed1"
 android:layout_width="0dp"
 android:layout height="wrap content"
 android:layout_marginTop="16dp"
 android:ems="10"
 android:inputType="textPersonName"
 app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toTopOf="parent"/>
<EditText
android:id="@+id/ed2"
android:layout_width="0dp"
android:layout height="wrap content"
android:layout_marginTop="24dp"
android:ems="10"
android:inputType="textPersonName"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/ed1"/>
```

```
<Button
android:id="@+id/btn1"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:layout_marginTop="132dp"
android:onClick="add"
android:text="+"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/ed2" />
<Button
android:id="@+id/btn2"
android:layout width="wrap content"
android:layout_height="0dp"
android:onClick="sub"
android:text="-"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/btn1"/>
<Button
android:id="@+id/btn3"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:layout_marginTop="60dp"
android:onClick="mul"
android:text="*"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/btn1" />
<Button
android:id="@+id/btn4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
```

```
android:layout_marginTop="12dp"
android:onClick="div"
android:text="/"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.067"
app:layout_constraintStart_toEndOf="@+id/btn3"
app:layout_constraintTop_toBottomOf="@+id/btn2" />
<TextView
android:id="@+id/txt1"
android:layout_width="384dp"
android:layout_height="21dp"
android:layout_marginTop="80dp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/ed1" />
</android.support.constraint.ConstraintLayout>
Main_Activity.java
package com.example.sjcet.simplecalculator;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
TextView tv1;
EditText et1,et2;
int ed1,ed2;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
}
```

```
public void add(View view) {
et1 = (EditText)findViewById(R.id.ed1);
et2 = (EditText)findViewById(R.id.ed2);
tv1 = (TextView)findViewById(R.id.txt1);
String s1 = et1.getText().toString();
String s2 = et2.getText().toString();
ed1 = Integer.parseInt(s1);
ed2 = Integer.parseInt(s2);
int sum = ed1 + ed2;
tv1.setText(Integer.toString(sum));
}
public void sub(View view) {
et1 = (EditText)findViewById(R.id.ed1);
et2 = (EditText)findViewById(R.id.ed2);
tv1 = (TextView)findViewById(R.id.txt1);
String s1 = et1.getText().toString();
String s2 = et2.getText().toString();
ed1 = Integer.parseInt(s1);
ed2 = Integer.parseInt(s2);
int sum = ed1 - ed2;
tv1.setText(Integer.toString(sum));
}
public void mul(View view) {
et1 = (EditText)findViewById(R.id.ed1);
et2 = (EditText)findViewById(R.id.ed2);
tv1 = (TextView)findViewById(R.id.txt1);
String s1 = et1.getText().toString();
String s2 = et2.getText().toString();
ed1 = Integer.parseInt(s1);
ed2 = Integer.parseInt(s2);
int sum = ed1 * ed2;
tv1.setText(Integer.toString(sum));
}
```

```
public void div(View view) {
  et1 = (EditText)findViewById(R.id.ed1);
  et2 = (EditText)findViewById(R.id.ed2);
  tv1 = (TextView)findViewById(R.id.txt1);
  String s1 = et1.getText().toString();
  String s2 = et2.getText().toString();
  ed1 = Integer.parseInt(s1);
  ed2 = Integer.parseInt(s2);
  int sum = ed1 / ed2;
  tv1.setText(Integer.toString(sum));
  }
}
```



6.create two activity from the button click move to the second activity using intent

PROGRAM

Activity_Main.xml

```
<LinearLayout android:layout_width="match_parent" android:layout_height="match_parent"
android:orientation="vertical"
android:gravity="center"
xmlns:android="http://schemas.android.com/apk/res/android">
<Button
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="MOVE TO NEXT ACTIVITY"
android:id="@+id/bt"
android:onClick="click"
android:gravity="center"/>
</LinearLayout>
```

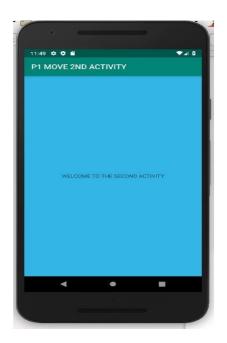
Activity_main2.xml

```
<LinearLayout android:layout_width="match_parent" android:layout_height="match_parent"
android:orientation="vertical"
android:gravity="center"
android:background="@android:color/holo_blue_light"
xmlns:android="http://schemas.android.com/apk/res/android">
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="WELCOME TO THE SECOND ACTIVITY"
android:id="@+id/tv"/>
</LinearLayout>
```

Main_Activity.java

package com.example.sjcet.cycle2_1;

```
import android.content.Intent;
import android.widget.Button;
import android.view.View;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
Button bt;
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
bt =findViewById(R.id.bt);
}
public void click(View view) {
OpenNewActivity();
}
public void OpenNewActivity()
Intent intent=new Intent(this, Main2Activity.class);
startActivity(intent);
}
Main_Activity2.java
package com.example.sjcet.cycle2_1;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class Main2Activity extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main2);
}
```





7. Create an activity and move to facebook login page on button click **PROGRAM**

Activity Main.xml

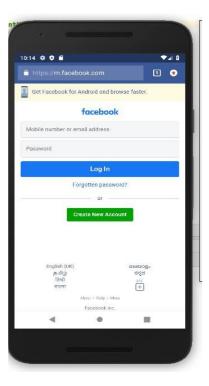
```
<LinearLayout android:layout_width="match_parent" android:layout_height="match_parent"</pre>
android:orientation="vertical"
android:gravity="center"
xmlns:android="http://schemas.android.com/apk/res/android">
<Button
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="MOVE TO FB PAGE"
android:id="@+id/bt"
android:onClick="click"
android:gravity="center"/>
</LinearLayout>
Main_Activity.java
package com.example.sjcet.myapplication;
import android.content.Intent;
import android.net.Uri;
```

```
import android.support.v7.app.AppCompatActivity;
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 btn_Explicit = (Button)findViewById(R.id.bt);
btn_Explicit.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {

Intent intent = new Intent(Intent.ACTION_VIEW,Uri.parse("https://www.facebook.com/"));
startActivity(intent);
}
});
```





8. Read message in the first activity and pass it to the 2nd activity on a button click

PROGRAM

Activity_Main.xml

```
<LinearLayout android:layout_width="match_parent" android:layout_height="match_parent"</pre>
android:orientation="vertical"
xmlns:android="http://schemas.android.com/apk/res/android">
<EditText
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/et"
android:textColor="@android:color/holo red dark"/>
<Button
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="MOVE TO NEXT ACTIVITY"
android:id="@+id/bt"
android:onClick="click"
/>
</LinearLayout>
```

Activity_main2.xml

```
<LinearLayout android:layout_width="match_parent" android:layout_height="match_parent"
android:orientation="vertical"
android:gravity="center"
xmlns:android="http://schemas.android.com/apk/res/android">
```

```
<TextView
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/tv"
</LinearLayout>
Main_Activity.java
package com.example.sjcet.myapplication;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
Button bt;
EditText et;
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
bt =findViewById(R.id.bt);
et =findViewById(R.id.et);
}
public void onClick(View v) {
String str = et.getText().toString();
```

```
Intent intent = new Intent(getApplicationContext(), Main2Activity.class);
intent.putExtra("message_key", str);
startActivity(intent);
}
Main_Activity2.java
package com.example.sjcet.myapplication;
import android.widget.TextView;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class Main2Activity extends AppCompatActivity {
TextView tv;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main2);
tv =findViewById(R.id.tv);
Intent intent = getIntent();
String str = intent.getStringExtra("message_key");
tv.setText(str);
}
```





9. Create a registration page with full validation and pass the information to the second activty (using shared preference)

Mandatory fields: fname,lname,gender,email,phone number,password,dob(date picker)

PROGRAM

Activity_Main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/activity_main"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical" >
<EditText
android:id="@+id/editTextName"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:ems="10"
android:hint="Enter First Name"
android:inputType="textPersonName" />
<EditText
android:id="@+id/editTextlName"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:ems="10"
android:hint="Enter Last Name"
android:inputType="textPersonName" />
<EditText
android:id="@+id/editTextgender"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:ems="10"
android:hint="Enter Gender"
```

```
android:inputType="textPersonName"/>
<EditText
android:id="@+id/editTextEmail"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:ems="10"
android:hint="Enter Email"
android:inputType="textPersonName" />
<EditText
android:id="@+id/editTextMobile"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:ems="10"
android:hint="Enter Mobile Number"
android:inputType="textEmailAddress" />
<EditText
android:id="@+id/editTextDob"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:ems="10"
android:hint="Enter Date of Birth (DD/MM/YYYY)"
android:inputType="date" />
<EditText
android:id="@+id/editTextpassword"
android:layout width="match parent"
android:layout_height="wrap_content"
android:ems="10"
android:hint="Enter Password"
android:inputType="textPassword" />
<Button
android:id="@+id/buttonSubmit"
android:layout_width="match_parent"
android:layout height="wrap content"
android:text="Submit"/>
</LinearLayout>
```

Activity_Main2.xml

```
<LinearLayout android:layout_width="match_parent" android:layout_height="match_parent"</pre>
android:orientation="vertical"
android:gravity="center"
xmlns:android="http://schemas.android.com/apk/res/android">
<TextView
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/tv"
/>
<TextView
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/tv1"
/>
<TextView
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/tv2"
/>
<TextView
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/tv3"
/>
<TextView
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/tv4"
/>
<TextView
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/tv5"
/>
<TextView
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/tv6"
/>
</LinearLayout>
```

Main_Activity.java

```
import android.content.Intent;
import android.net.Uri;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import android.util.Patterns;
import android.view.View;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.Button;
import android.widget.Toast;
import android.content.SharedPreferences;
public class MainActivity extends AppCompatActivity {
EditText editTextName, editTextlName, editTextEmail, editTextMobile,
editTextDob, editTextgender,editTextpassword;
Button buttonSubmit:
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
buttonSubmit =findViewById(R.id.buttonSubmit);
editTextName =findViewById(R.id.editTextName);
editTextlName =findViewById(R.id.editTextlName);
editTextEmail =findViewById(R.id.editTextEmail);
editTextMobile =findViewById(R.id.editTextMobile);
editTextDob =findViewById(R.id.editTextDob);
```

```
editTextgender =findViewById(R.id.editTextgender);
editTextpassword =findViewById(R.id.editTextpassword);
buttonSubmit.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
checkDataEntered();
SharedPreferences mypref=getSharedPreferences("activity_main2.xml",0);
SharedPreferences.Editor editor=mypref.edit();//only write editor
editor.putString("fname",editTextName.getText().toString()); //bundle the data
editor.putString("lname",editTextlName.getText().toString());
editor.putString("gender",editTextgender.getText().toString());
editor.putString("phone",editTextMobile.getText().toString());
editor.putString("pwd",editTextpassword.getText().toString());
editor.putString("email",editTextEmail.getText().toString());
editor.putString("dob",editTextDob.getText().toString());
editor.commit();
// String str = editTextName.getText().toString();
//String str1 = editTextName.getText().toString();
Intent intent = new Intent(getApplicationContext(), Main2Activity.class);
intent.putExtra("fname",editTextName.getText().toString());
intent.putExtra("lname",editTextlName.getText().toString());
intent.putExtra("gender",editTextgender.getText().toString());
intent.putExtra("phone",editTextMobile.getText().toString());
intent.putExtra("pwd",editTextpassword.getText().toString());
intent.putExtra("email",editTextEmail.getText().toString());
intent.putExtra("dob",editTextDob.getText().toString());
startActivity(intent);
}
});
boolean isEmail(EditText text) {
CharSequence email = text.getText().toString();
return (!TextUtils.isEmpty(email) &&
Patterns.EMAIL_ADDRESS.matcher(email).matches());
```

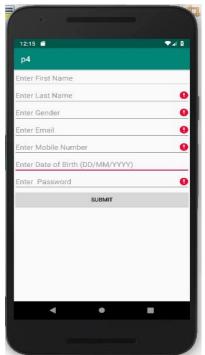
```
}
boolean isEmpty(EditText text) {
CharSequence str = text.getText().toString();
return TextUtils.isEmpty(str);
}
void checkDataEntered() {
if (isEmpty(editTextName)) {
Toast t = Toast.makeText(this, "You must enter first name to register!",
Toast.LENGTH_SHORT);
t.show();
}
if (isEmpty(editTextlName)) {
editTextlName.setError("Last name is required!");
}
if (isEmpty(editTextMobile)) {
editTextMobile.setError("mobile number is required!");
}
if (isEmpty(editTextgender)) {
editTextgender.setError("Gender is required!");
}
if (isEmpty(editTextpassword)) {
editTextpassword.setError("Password is required!");
}
if (isEmpty(editTextDob)) {
editTextDob.setError("DOB is required!");
}
if (isEmail(editTextEmail) == false) {
editTextEmail.setError("Enter valid email!");
}
```

Main_Activity2.java

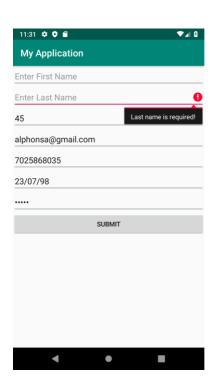
import android.content.SharedPreferences;

```
import android.widget.TextView;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class Main2Activity extends AppCompatActivity {
TextView tv,tv1,tv2,tv3,tv4,tv5,tv6;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main2);
tv =findViewById(R.id.tv);
tv1 =findViewById(R.id.tv1);
tv2 =findViewById(R.id.tv2);
tv3 =findViewById(R.id.tv3);
tv4 = findViewById(R.id.tv4);
tv5 =findViewById(R.id.tv5);
tv6 = findViewById(R.id.tv6);
Intent intent = getIntent();
SharedPreferences mypref=getSharedPreferences("activity_main2.xml",0);
String str = mypref.getString("fname",null);
String str1 = mypref.getString("lname",null);
String str2 = mypref.getString("gender",null);
String str3 = mypref.getString("phone",null);
String str4 = mypref.getString("pwd",null);
String str5 = mypref.getString("email",null);
String str6 = mypref.getString("dob",null);
tv.setText(str);
tv1.setText(str1);
tv2.setText(str2);
tv3.setText(str3);
tv4.setText(str4);
tv5.setText(str5);
tv6.setText(str6);
}
```

}







10. login and registration

PROGRAM

Activity home.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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=".home">
<TextView
android:id="@+id/textView"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="HOME"
tools:layout_editor_absoluteX="163dp"
tools:layout_editor_absoluteY="40dp" />
</android.support.constraint.ConstraintLayout>
```

Activity_Main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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/btn1"
android:layout_width="100dp"
android:layout height="51dp"
android:layout_marginTop="24dp"
android:onClick="register"
android:text="Register"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/btn2"/>
<Button
android:id="@+id/btn2"
android:layout_width="79dp"
android:layout_height="wrap_content"
android:layout_marginTop="24dp"
android:layout_marginBottom="24dp"
android:onClick="login"
android:text="Login"
app:layout constraintBottom toTopOf="@+id/btn1"
app:layout_constraintEnd_toEndOf="parent"
app:layout constraintStart toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/edpass"/>
<EditText
android:id="@+id/eduname"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginTop="24dp"
android:ems="10"
android:hint="username"
android:inputType="textPersonName"
app:layout_constraintEnd_toEndOf="parent"
app:layout constraintStart toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"/>
```

```
<EditText
android:id="@+id/edpass"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginTop="24dp"
android:ems="10"
android:hint="password"
android:inputType="textPersonName"
app:layout_constraintEnd_toEndOf="parent"
app:layout constraintStart toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/eduname" />
</android.support.constraint.ConstraintLayout>
activity_register.xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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=".register">
<EditText
android:id="@+id/edtxt1"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginTop="24dp"
android:layout_marginBottom="24dp"
android:ems="10"
android:hint="Name"
android:inputType="textPersonName"
```

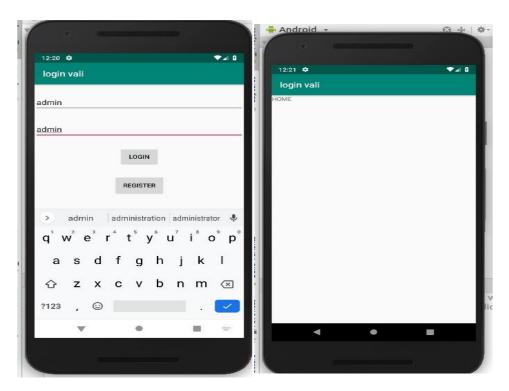
```
app:layout constraintBottom toTopOf="@+id/edtxt2"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<EditText
android:id="@+id/edtxt2"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginTop="24dp"
android:layout_marginBottom="24dp"
android:ems="10"
android:hint="Address"
android:inputType="textPersonName"
app:layout_constraintBottom_toTopOf="@+id/edtxt3"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/edtxt1" />
<EditText
android:id="@+id/edtxt3"
android:layout_width="0dp"
android:layout height="wrap content"
android:layout_marginBottom="24dp"
android:ems="10"
android:hint="email"
android:inputType="textPersonName"
app:layout_constraintBottom_toTopOf="@+id/edtxt4"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent" />
<EditText
android:id="@+id/edtxt4"
android:layout_width="0dp"
```

```
android:layout height="wrap content"
android:layout_marginTop="24dp"
android:ems="10"
android:hint="phone no"
android:inputType="textPersonName"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/edtxt3" />
</android.support.constraint.ConstraintLayout>
home.java
package com.example.sicet.constlayout;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class home extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_home);
}
Main_Activity.java
package com.example.sjcet.constlayout;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
}
public void register(View view) {
Intent i = new Intent(MainActivity.this, register.class);
startActivity(i);
}
public void login(View view) {
EditText E1, E2;
E1 =(EditText) findViewById(R.id.eduname);
E2 = (EditText) findViewById(R.id.edpass);
if ((E1.getText().toString().equals("admin")) && (E2.getText().toString().equals("admin")))
{
Intent i = new Intent(MainActivity.this,home.class);
startActivity(i);
}
else
Toast.makeText(this, "Invalid username or password", Toast.LENGTH_SHORT).show();
}
}
Register.java
package com.example.sjcet.loginvali;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
```

```
import android.widget.EditText;
import android.widget.Toast;
public class register extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_register);
}
public void rgstr(View view) {
EditText E1,E2,E3,E4,E5;
E1 = (EditText) findViewById(R.id.edtxt1);
E2 = (EditText) findViewById(R.id.edtxt2);
E3 = (EditText) findViewById(R.id.edtxt3);
E4 = (EditText) findViewById(R.id.edtxt4);
E5 = (EditText) findViewById(R.id.edtxt5);
String MobilePattern = "[0-9]{10}";
if(E1.length() == 0) {
Toast.makeText(this, "Enter name", Toast.LENGTH_SHORT).show();
}
else if(E2.length() == 0) {
Toast.makeText(this, "Enter Address", Toast.LENGTH_SHORT).show();
}
else if(E3.length() == 0) {
Toast.makeText(this, "Enter Email", Toast.LENGTH_SHORT).show();
}
else if(E4.length() == 0) {
Toast.makeText(this, "Enter phone no", Toast.LENGTH_SHORT).show();
Dept. of Computer Science And Applications, SJCET, Palai
```

```
else if((E4.length() != 10) && (!E5.getText().toString().matches(MobilePattern)) ) {
Toast.makeText(this, "enter valid phone number", Toast.LENGTH_SHORT).show();
}
else if(E5.length() == 0) {
Toast.makeText(this, "Enter valid password", Toast.LENGTH_SHORT).show();
}
else if(E5.length() < 8) {
Toast.makeText(this, "Password should be minimum 8 characters",
Toast.LENGTH_SHORT).show();
}
else {
Toast.makeText(this, "resgistered successfully", Toast.LENGTH_SHORT).show();
}
```



11.List view

PROGRAM

```
Main_activity.java
package com.example.sjcet.listview;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.ListView;
public class MainActivity extends AppCompatActivity {
ListView lv;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
lv=(ListView)findViewById(R.id.lv);
String[] courses={"MCA","MBA","BBA","BCA"};
ArrayAdapter adapter = new
ArrayAdapter(this,android.R.layout.simple_list_item_1,courses);
lv.setAdapter(adapter);
}
Activity_Main.xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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/textView2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
app:layout constraintBottom toBottomOf="parent"
app:layout_constraintLeft_toLeftOf="parent"
app:layout constraintRight toRightOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<TextView
android:id="@+id/textView"
android:layout_width="162dp"
android:layout_height="47dp"
android:layout marginStart="8dp"
android:layout_marginLeft="8dp"
android:layout_marginEnd="8dp"
android:layout_marginRight="8dp"
android:text="Account"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
tools:layout_editor_absoluteY="64dp" />
<ListView
```

android:id="@+id/lv"

android:layout_width="368dp"

android:layout_height="321dp"

tools:layout_editor_absoluteX="8dp"

tools:layout_editor_absoluteY="131dp" />

</android.support.constraint.ConstraintLayolistut>



12. List View using Toast

PROGRAM

Activity_Main.xml

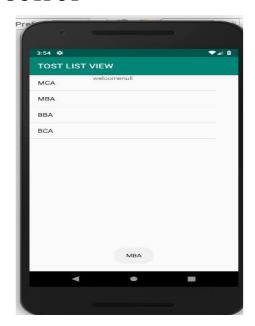
```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
<TextView
android:id="@+id/textView2"
android:layout_width="wrap_content"
android:layout height="wrap content"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<TextView
android:id="@+id/tv"
android:layout_width="162dp"
android:layout height="47dp"
android:layout_marginStart="8dp"
android:layout_marginLeft="8dp"
android:layout_marginEnd="8dp"
android:layout_marginRight="8dp"
android:text="Account"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
tools:layout_editor_absoluteY="64dp" />
<ListView
```

```
android:id="@+id/lv"
android:layout_width="368dp"
android:layout_height="321dp"
tools:layout_editor_absoluteX="8dp"
tools:layout_editor_absoluteY="131dp"/>
</android.support.constraint.ConstraintLayout>
```

Main_Activity.java

```
package com.example.sjcet.tostlistview;
import android.content.Intent;
import android.net.Uri;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity implements
AdapterView.OnItemClickListener {
TextView tv:
ListView lv:
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
tv=(TextView)findViewById(R.id.tv);
String msg=getIntent().getStringExtra("mykey");// receiving the data
tv.setText("welcome"+msg);
lv=(ListView)findViewById(R.id.lv);// display(welcom changing to admin)
// listvivew operation
```

```
String[] courses={"MCA","MBA","BBA","BCA"};
ArrayAdapter adapter = new
ArrayAdapter(this,android.R.layout.simple_list_item_1,courses);
lv.setAdapter(adapter);
// attach listener
lv.setOnItemClickListener(this);//implement the method by alt+enter
}
@Override
public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
String itemname=lv.getItemAtPosition(i).toString();
Toast.makeText(this,itemname,Toast.LENGTH_SHORT).show();
}
}
```



13. Grid view

PROGRAM

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
xmlns:app="http://schemas.android.com/apk/res-auto"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
<GridView
android:id="@+id/gv"
android:layout width="wrap content"
android:layout_height="wrap_content"
android:columnWidth="100dp"
android:minHeight="100dp"
android:numColumns="auto_fit"
android:stretchMode="columnWidth"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent" />
</android.support.constraint.ConstraintLayout>
```

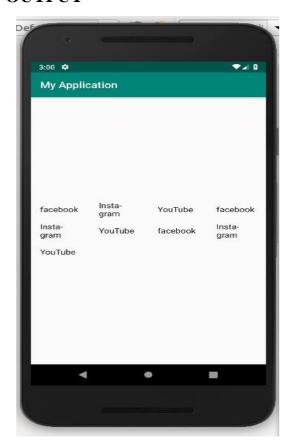
Main_Activity.java

```
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
```

package com.example.sjcet.myapplication;

47

```
import android.widget.ArrayAdapter;
import android.widget.GridView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity implements
AdapterView.OnItemClickListener {
GridView gridView;
static final String[] gridviewvalue={
"facebook", "Instagram", "YouTube",
"facebook", "Instagram", "YouTube",
"facebook", "Instagram", "YouTube"
};
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
gridView=findViewById(R.id.gv);
ArrayAdapter adapter = new
ArrayAdapter(this,android.R.layout.simple_list_item_1,gridviewvalue);
gridView.setAdapter(adapter);
gridView.setOnItemClickListener(this);
public void onItemClick(AdapterView<?> adapterView, View view, int i, long l)
String itemname=gridView.getItemAtPosition(i).toString();
Toast.makeText(this,itemname,Toast.LENGTH_SHORT).show();
}
```



14. Option menu

PROGRAM

```
Activity_Main.xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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:layout width="wrap content"
android:layout_height="wrap_content"
android:text="Hello World!"
android:id="@+id/tv"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout constraintTop toTopOf="parent"/>
</android.support.constraint.ConstraintLayout>
```

Main_Activity.java

```
package com.example.sjcet.contextmenu;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.TextView;
import android.widget.Toast;
```

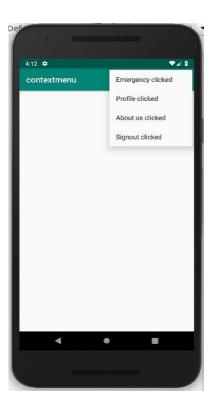
```
public class MainActivity extends AppCompatActivity {
TextView tv;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
tv=(TextView)findViewById(R.id.tv);
String msg=getIntent().getStringExtra("mykey");// receiving the data
tv.setText(msg);
                                   // display(welcom changing to admin)
}
@Override
public boolean onCreateOptionsMenu(Menu menu) {
getMenuInflater().inflate(R.menu.main_menu,menu); //connecting menu
return true;
                      // changing to true
}
@Override
public boolean onOptionsItemSelected(MenuItem item) {
switch (item.getItemId()) {
case R.id.emergency: // full colon
Toast.makeText(this," Emergency clicked",Toast.LENGTH_SHORT).show();
break;
case R.id.profile:
Toast.makeText(this," Profile clicked",Toast.LENGTH_SHORT).show();
break:
case R.id.aboutus:
Toast.makeText(this," About us clicked",Toast.LENGTH_SHORT).show();
break:
case R.id.signout:
Toast.makeText(this," Signout clicked",Toast.LENGTH_SHORT).show();
break;
}
return true;// changing to true
```

Main_Menu.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
<item
android:id="@+id/emergency"
android:title="Emergency clicked"/>
<item
android:id="@+id/profile"
android:title="Profile clicked"/>
<item
android:id="@+id/aboutus"
android:title="About us clicked"/>
<item
android:title="About us clicked"/>
<item
android:id="@+id/signout"
android:title="Signout clicked"/>
</menu>
```







15. Context menu

PROGRAM

Activity_Main.Xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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/text_view"
android:layout width="wrap content"
android:layout_height="wrap_content"
android:text="Click Here"
android:textSize="30dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent" />
</android.support.constraint.ConstraintLayout>
```

Main_Actiity.Java

```
package com.example.sjcet.contextmenu;
```

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.ContextMenu;

import android.view.MenuItem;

import android.view.View;

import android.widget.TextView;

import android.widget.Toast;

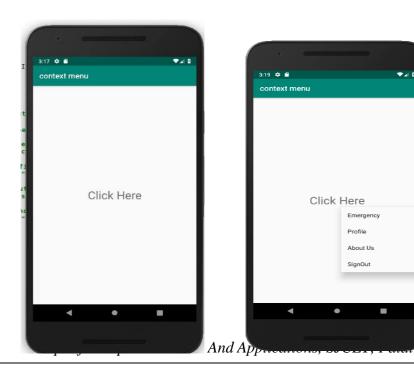
public class MainActivity extends AppCompatActivity {

@Override

```
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity main);
TextView textView=findViewById(R.id.text_view);
registerForContextMenu(textView);
}
@Override
public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenuInfo menuInfo) {
super.onCreateContextMenu(menu, v, menuInfo);
getMenuInflater().inflate(R.menu.main_menu,menu);
}
@Override
public boolean onContextItemSelected(MenuItem item) {
switch (item.getItemId()){
case R.id. Emergency:
Toast.makeText(this,"Emergency Clicked",Toast.LENGTH_SHORT).show();
break;
case R.id.profile:
Toast.makeText(this,"Profile Clicked",Toast.LENGTH_SHORT).show();
break;
case R.id.aboutus:
Toast.makeText(this,"About Us Clicked",Toast.LENGTH_SHORT).show();
break;
case R.id.signout:
Toast.makeText(this, "Signout Clicked", Toast.LENGTH_SHORT).show();
break;
default:
}
return super.onContextItemSelected(item);
}
```

Main_Menu.Xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
<item
android:id="@+id/Emergency"
android:title="Emergency"
/>
<item android:id="@+id/profile"
android:title="Profile"
/>
<item android:id="@+id/aboutus"
android:title="About Us"
/>
<item android:id="@+id/signout"
android:title="SignOut"
/>
</menu>
```





16. Develop an application as a micro project which users SQL database

Activity Main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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">
<EditText
android:id="@+id/ed1"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginStart="8dp"
android:layout marginLeft="8dp"
android:layout_marginTop="8dp"
android:ems="10"
android:hint="name"
android:inputType="textPersonName"
app:layout_constraintStart_toStartOf="parent"
app:layout constraintTop toTopOf="parent"/>
<EditText
android:id="@+id/ed2"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginStart="8dp"
android:layout_marginLeft="8dp"
android:layout_marginTop="36dp"
android:ems="10"
android:hint="Surname"
android:inputType="textPersonName"
app:layout_constraintStart_toStartOf="parent"
```

```
app:layout constraintTop toBottomOf="@+id/ed1" />
<EditText
android:id="@+id/ed3"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginStart="8dp"
android:layout_marginLeft="8dp"
android:layout_marginTop="28dp"
android:ems="10"
android:hint="marks"
android:inputType="textPersonName"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/ed2" />
<Button
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="19dp"
android:onClick="SaveDat"
android:text="Insert"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/ed3"
tools:ignore="OnClick" />
<Button
android:id="@+id/button2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="96dp"
android:layout_marginLeft="96dp"
android:layout_marginTop="19dp"
android:onClick="read"
android:text="Read"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/ed3"
```

```
tools:ignore="OnClick" />
<TextView
android:id="@+id/textView"
android:layout_width="match_parent"
android:layout_height="207dp"
android:layout_marginTop="20dp"
android:hint="data"
app:layout_constraintTop_toBottomOf="@+id/button"/>
<Button
android:id="@+id/button3"
android:layout width="wrap content"
android:layout_height="wrap_content"
android:layout_marginStart="192dp"
android:layout_marginLeft="192dp"
android:layout_marginTop="19dp"
android:onClick="update"
android:text="update"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/ed3"
tools:ignore="OnClick" />
<Button
android:id="@+id/button4"
android:layout width="wrap content"
android:layout_height="wrap_content"
android:layout_marginStart="288dp"
android:layout_marginLeft="288dp"
android:layout_marginTop="19dp"
android:onClick="delete"
android:text="delete"
app:layout_constraintStart_toStartOf="parent"
app:layout constraintTop toBottomOf="@+id/ed3"
tools:ignore="OnClick" />
</android.support.constraint.ConstraintLayout>
```

Main Menu.Xml

```
package com.example.sjcet.databasepgm;
import android.content.ContentValues;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
EditText Name, Mark, Surname;
TextView DataV;
MyDatabase database = new MyDatabase(this);
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
Name = findViewById(R.id.ed1);
Surname = findViewById(R.id.ed2);
Mark = findViewById(R.id.ed3);
DataV = findViewById(R.id.textView);
public void SaveDat(View view) {
String UserVal = Name.getText().toString();
String SurnameVal = Surname.getText().toString();
Integer PassVal = Integer.parseInt(Mark.getText().toString());
Boolean result = database.insertdata(UserVal, PassVal,SurnameVal);
if (result == true) {
Toast.makeText(getApplicationContext(), "Data inserted Sucessfully",
Toast.LENGTH_SHORT).show();
```

```
} else {
Toast.makeText(getApplicationContext(), "Data inserted failed",
Toast.LENGTH SHORT).show();
}
}
public void read(View view) {
Cursor res = database.getAllData();
StringBuffer stringBuffer = new StringBuffer();
if (res != null && res.getCount() > 0) {
while (res.moveToNext()) {
stringBuffer.append("Id: " + res.getString(0) + "\n");
stringBuffer.append("Name: " + res.getString(1) + "\n");
stringBuffer.append("Surname: " + res.getString(2) + "\n");
stringBuffer.append("marks: " + res.getString(3) + "\n");
}
DataV .setText(stringBuffer.toString());
} else {
Toast.makeText(getApplicationContext(), "Data Retrieved Successfully",
Toast.LENGTH_SHORT).show();
}
Toast.makeText(getApplicationContext(), "Data Retrieved Successfully",
Toast.LENGTH_SHORT).show();
}
public void update(View view) {
String UserVal = Name.getText().toString();
String SurnameVal = Surname.getText().toString();
Integer PassVal = Integer.parseInt(Mark.getText().toString());
Boolean result = database.updateData(UserVal, PassVal, SurnameVal);
if (result==true){
Toast.makeText(getApplicationContext(), "Data updated Successfully",
Toast.LENGTH_SHORT).show();
}
else {
Toast.makeText(getApplicationContext(), "No Rows Affected",
```

```
Toast.LENGTH_SHORT).show();
}
public void delete(View view) {
String UserVal = Name.getText().toString();
int result=database.deletedata(UserVal);
Toast.makeText(getApplicationContext(), "Rows Affected",
Toast.LENGTH_SHORT).show();
MyDatabase.Xml
package com.example.sjcet.databasepgm;
import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.view.View;
public class MyDatabase extends SQLiteOpenHelper {
public MyDatabase(Context context) {
super(context, "Login.db", null, 1);
}
@Override
public void onCreate(SQLiteDatabase db) {
db.execSQL("Create table USERS(ID INTEGER PRIMARY KEY
AUTOINCREMENT, NAME text, SURNAME text, MARKS INTEGER)");
}
@Override
public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
db.execSQL("DROP TABLE IF EXISTS USERS");
}
public Cursor getAllData() {
```

```
SQLiteDatabase db=this.getWritableDatabase();
Cursor res = db.rawQuery("Select * from USERS",null);
return res;
}
public Boolean insertdata(String userVal, Integer passVal, String surnameVal) {
SQLiteDatabase db = this.getWritableDatabase();
ContentValues contentValues = new ContentValues();
contentValues.put("NAME", userVal);
contentValues.put("SURNAME", surnameVal);
contentValues.put("MARKS", passVal);
long result = db.insert("USERS", null, contentValues);
db.close();
if (result == -1) {
return false;
} else {
return true;
}
public int deletedata(String userVal) {
SQLiteDatabase db=this.getWritableDatabase();
int i =db.delete("USERS","NAME=?",new String[]{userVal});
return i;
}
public Boolean updateData(String userVal, Integer passVal, String surnameVal) {
SQLiteDatabase db=this.getWritableDatabase();
ContentValues contentValues=new ContentValues();
contentValues.put("NAME",userVal);
contentValues.put("SURNAME",surnameVal);
contentValues.put("MARKS",passVal);
int result=db.update("USERS",contentValues,"NAME=?",new String[]{userVal});
if (result>0) {
return true;
}
```

```
else
{
return false;
}
}
```

