Mobile Application Development Lab (20 MCA 243)

LAB RECORD

Submitted in partial fulfillment of the requirements for the award of the degree of Master of Computer Applications of A P

J Abdul Kalam Technological University

Submitted by:

ARDRA P DAS (SJC21MCA-2009)



MASTER OF COMPUTER APPLICATIONS

ST.JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY,
PALAI ,CHOONDACHERRY P.O, KOTTAYAM, KERALA
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ST. JOSEPH'S COLLEGE OF ENGINEERING

AND TECHNOLOGY, PALAI

(An ISO 9001: 2008 Certified College)

CHOONDACHERRY P.O, KOTTAYAM KERALA



CERTIFICATE

This is to certify that the *Mobile Application Development Lab Record* (20 MCA 243) submitted by Ardra P Das student of Third semester MCA at ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY, PALAI in partial fulfillment for the award of Master of Computer Applications is a bonafide record of the lab work carried out by her under our guidance and supervision. This record in any form has not been submitted to any other University or Institute for any purpose.

Mr. Ahil Sekharan Mr. Anish Augustine Faculty In- Charge (HoD In Charge-MCA)

Submitted for the End Semester Examination held on:

Examiner 1:

Examiner 2:

DECLARATION

I Ardra P Das, do hereby declare that the *Mobile Application Development Lab Record (20 MCA 243)* is a record of work carried out under the guidance Mr.Akhil Sekharan, Asst. Professor, Department of MCA, SJCET, Palai as per the requirement of the curriculum of Master of Computer Applications Programme of A P J Abdul Kalam Technological University, Thiruvananthapuram. Further, I also declare that this record has not been submitted, full or part thereof, in any University / Institution for the award of any Degree / Diploma.

Place: Choondacherry

Ardra P Das

(SIG21MGA 20)

Date: (SJC21MCA-2009)

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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.c
om/apk/res-auto"
xmlns:tools="http://schemas.android.
com/tools"
android:layout_width="match_paren
t"
android:layout height="match paren
t" tools:context=".MainActivity">
<LinearLayout
android:layout widt
h="match parent"
android:layout_height="match_parent" android:orientation="vertical">
<EditText
android:id="@+id/e
ditText"
android:layout widt
h="wrap_content"
android:layout height=
"wrap_content"
```

```
android:ems="10"
android:inputType="tex
tPersonName"
android:text="USERN
AME"
android:textColor="@c
olor/colorAccent"
tools:layout_editor_abs
oluteX="85dp"
tools:layout_editor_abs
oluteY="54dp"/>
<EditText
android:id=
"@+id/edit
Text2"
```

```
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>
```

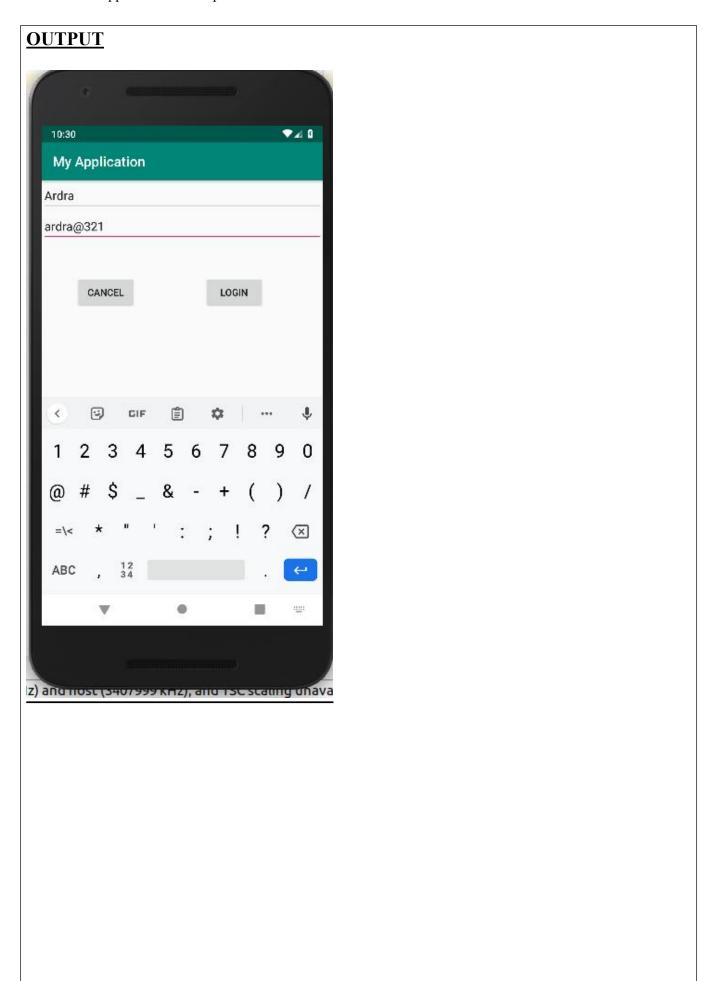
```
Main_Activity.java

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</pre>
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)
{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

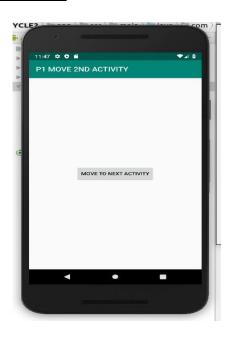
Activity main2.xml

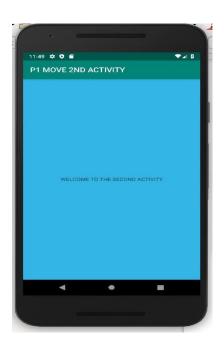
```
<LinearLayout android:layout_width="match_parent" android:layout_height="match_parent"
android:orientation="vertical"
android:gravity="center"
android:background="@android:color/holo_blue_light"
xmlns:android="http://schemas.android.com/apk/res/android">
<TextView
android:layout_width="wrap_content"
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);
}
```





{super.onCreate(savedInstanceState);

setContentView(R.layout.activity main);

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

PROGRAM

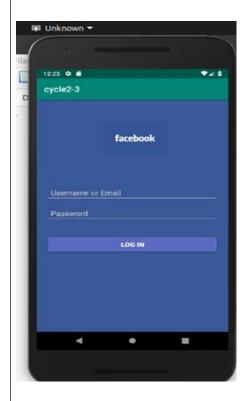
```
Activity Main.xml
<LinearLayout android:layout width="match parent" android:layout height="match parent"</p>
android:orientation="vertical"
android:gravity="center"
xmlns:android="http://schemas.android.com/apk/res/android">
<Button
android:layout width="wrap content"
android:layout height="wrap 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)
```

```
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"</p>
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"</p>
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);
   }
OUTPUT
          SEND
```

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>
```

/>

/>

<TextView

<TextView

android:id="@+id/tv4"

android:layout width="match parent" android:layout height="wrap content"

android:layout width="match parent"

Activity Main2.xml <LinearLayout android:layout width="match parent" android:layout height="match parent"</p> 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"

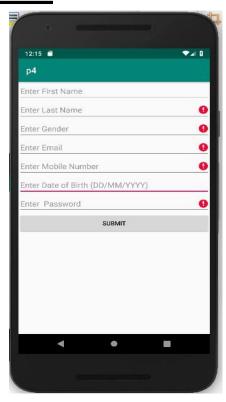
```
android:layout width="match parent"
android:layout height="wrap content"
android:id="@+id/tv6"
/>
</LinearLayout>
Main Activity.java
import android.content.Intent;
import android.net.Uri;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import 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.sjcet.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);
```

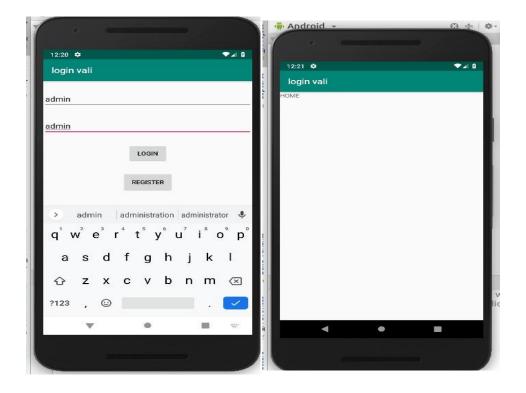
```
}
Main Activity.java
package com.example.sjcet.constlayout;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
@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();
}
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() \leq 8) {
Toast.makeText(this, "Password should be minimum 8 characters",
Toast.LENGTH_SHORT).show();
}
else{
Toast.makeText(this, "resgistered successfully", Toast.LENGTH SHORT).show();
}
}
```

OUTPUT

}



11.List view

```
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"

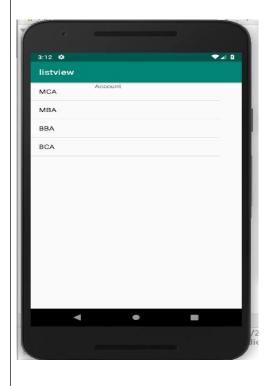
android:layout_width="368dp"

android:layout_height="321dp"

tools:layout_editor_absoluteX="8dp"

tools:layout_editor_absoluteY="131dp" />

</android.support.constraint.ConstraintLayolistut>



12.List View using Toast

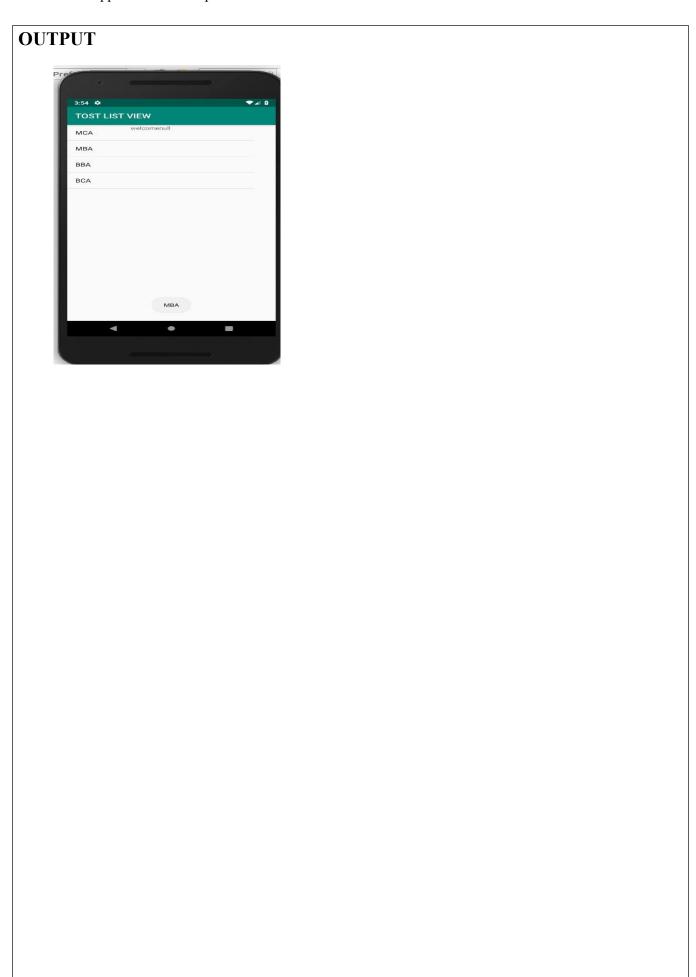
PROGRAM

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.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

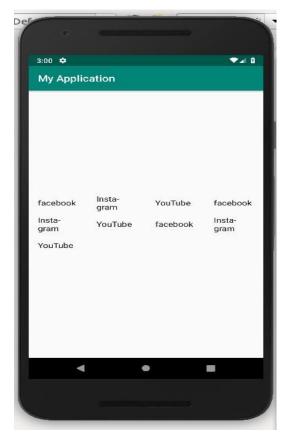
```
Activity main.xml
```

```
<?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

```
package com.example.sjcet.myapplication;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
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","Instag
ram", "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

```
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) {
```

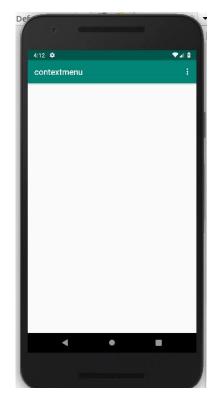
```
getMenuInflater().inflate(R.menu.main menu,menu); //connecting menu
return true;
                      // changing to true
}
@Override
public boolean onOptionsItemSelected(MenuItem item)
{switch (item.getItemId()) {
case R.id.emergency: // full colon
Toast.makeText(this," Emergency clicked",Toast.LENGTH 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:id="@+id/signout"

android:title="Signout clicked"/>
</menu>







15.Context menu

```
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> **OUTPUT** Click Here Click Here Profile SignOut context menu Click Here

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: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="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>
```

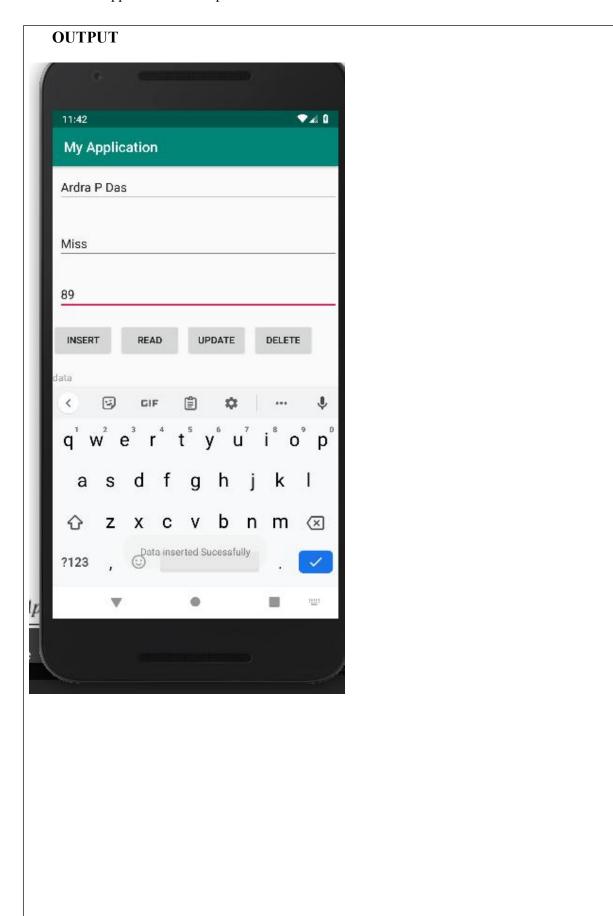
```
Main Menu.Xml
   package com.example.sjcet.databasepgm;
   import android.content.ContentValues;
   import android.database.Cursor;
   import android.database.sqlite.SQLiteDatabase;
   import android.support.v7.app.AppCompatActivity;
   import android.os.Bundle;
   import android.view.View;
   import 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",
   } 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();
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;
}
```



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