Program 1

**Layout**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.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!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Java**

package com.example.toast;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 Toast.*makeText*(getApplicationContext(),"Hello Welcome To android",Toast.*LENGTH\_LONG*).show();  
  
 }  
}

**Output**

**Program 2**

**Layout**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/entry1"/>  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/entry2"/>  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/button"  
 android:text="Add"/>  
  
</LinearLayout>

**Java**

package com.example.sum;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 private EditText value1,value2;  
 private Button sum;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 addListenerOnButton();  
  
 }  
  
 private void addListenerOnButton() {  
 value1=(EditText) findViewById(R.id.*entry1*);  
 value2=(EditText) findViewById(R.id.*entry2*);  
 sum=(Button) findViewById(R.id.*button*);  
 sum.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String e1=value1.getText().toString();  
 String e2=value2.getText().toString();  
 int a=Integer.*parseInt*(e1);  
 int b=Integer.*parseInt*(e2);  
 int sum=a+b;  
 Toast.*makeText*(getApplicationContext(),String.*valueOf*(sum),Toast.*LENGTH\_LONG*).show();  
  
 }  
 });  
 }  
}

**Output**

**Program 3**

**Layout**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textColor="@color/black"  
 android:hint="Enter Username"  
 android:layout\_margin="10dp"  
 android:id="@+id/usr"/>  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textColor="@color/black"  
 android:hint="Enter Password"  
 android:inputType="textPassword"  
 android:layout\_margin="10dp"  
 android:id="@+id/pass"/>  
 <androidx.appcompat.widget.AppCompatButton  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/btn"  
 android:layout\_margin="10dp"  
 android:text="SUBMIT"  
 android:textColor="@color/black"/>  
</LinearLayout>

**Java**

package com.example.loginpage;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.appcompat.widget.AppCompatButton;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 EditText ed1,ed2;  
 AppCompatButton b1;  
 String getuser,getpass;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 ed1=(EditText) findViewById(R.id.*usr*);  
 ed2=(EditText) findViewById(R.id.*pass*);  
 b1=(AppCompatButton) findViewById(R.id.*btn*);  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 getuser=ed1.getText().toString();  
 getpass=ed2.getText().toString();  
 Toast.*makeText*(getApplicationContext(),getuser,Toast.*LENGTH\_LONG*).show();  
 }  
 });  
  
  
 }  
}

**Output**

**Program 4**

**Layout**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.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="Activity Lifecycle"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Java**

package com.example.lifecycle;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.util.Log;  
import android.widget.Toast;  
  
import java.time.Year;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 Log.*d*("Activity\_LifeCycle","OnCreated Invoked");  
 Toast.*makeText*(MainActivity.this,"Created",Toast.*LENGTH\_SHORT*).show();  
 }  
 @Override  
 protected void onStart(){  
 super.onStart();  
 Log.*d*("Activity\_LifeCycle","OnStart Invoked");  
 Toast.*makeText*(MainActivity.this,"Start",Toast.*LENGTH\_SHORT*).show();  
 }  
 @Override  
 protected void onResume()  
 {  
 super.onResume();  
 Log.*d*("Activity\_LifeCycle","onResume Invoked");  
 Toast.*makeText*(MainActivity.this,"Resume",Toast.*LENGTH\_SHORT*).show();  
 }  
 @Override  
 protected void onPause()  
 {  
 super.onPause();  
 Log.*d*("Activity\_LifeCycle","onPause Invoked");  
 Toast.*makeText*(MainActivity.this,"Pause",Toast.*LENGTH\_SHORT*).show();  
 }  
 @Override  
 protected void onStop()  
 {  
 super.onStop();  
 Log.*d*("Activity\_LifeCycle","onStop Invoked");  
 Toast.*makeText*(MainActivity.this,"Stop",Toast.*LENGTH\_SHORT*).show();  
 }  
 @Override  
 protected void onRestart()  
 {  
 super.onRestart();  
 Log.*d*("Activity\_LifeCycle","onRestart Invoked");  
 Toast.*makeText*(MainActivity.this,"Restart",Toast.*LENGTH\_SHORT*).show();  
 }  
 @Override  
 protected void onDestroy()  
 {  
 super.onDestroy();  
 Log.*d*("Activity\_LifeCycle","onDestroy Invoked");  
 Toast.*makeText*(MainActivity.this,"Destroy",Toast.*LENGTH\_SHORT*).show();  
 }  
}

**Output**

**Program 5**

**Layout**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter first number"  
 android:inputType="number"  
 android:id="@+id/fno"  
 android:layout\_margin="10dp"  
 android:textColor="@color/black"/>  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter second number"  
 android:inputType="number"  
 android:id="@+id/sno"  
 android:layout\_margin="10dp"  
 android:textColor="@color/black"/>  
 <androidx.appcompat.widget.AppCompatButton  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="+"  
 android:id="@+id/add"  
 android:layout\_margin="10dp"  
 android:textColor="@color/black"/>  
 <androidx.appcompat.widget.AppCompatButton  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="-"  
 android:id="@+id/sub"  
 android:layout\_margin="10dp"  
 android:textColor="@color/black"/>  
 <androidx.appcompat.widget.AppCompatButton  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="/"  
 android:id="@+id/div"  
 android:layout\_margin="10dp"  
 android:textColor="@color/black"/>  
 <androidx.appcompat.widget.AppCompatButton  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="\*"  
 android:id="@+id/multi"  
 android:layout\_margin="10dp"  
 android:textColor="@color/black"/>  
 <androidx.appcompat.widget.AppCompatButton  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="clear"  
 android:id="@+id/clear"  
 android:layout\_margin="10dp"  
 android:textColor="@color/black"/>  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="result"  
 android:id="@+id/res"  
 android:layout\_margin="10dp"  
 android:textColor="@color/black"/>  
  
  
</LinearLayout>

**Java**

package com.example.calculator;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.appcompat.widget.AppCompatButton;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
 EditText ed1,ed2,ed3;  
 AppCompatButton b1,b2,b3,b4,b5;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 ed1=(EditText) findViewById(R.id.*fno*);  
 ed2=(EditText) findViewById(R.id.*sno*);  
 ed3=(EditText) findViewById(R.id.*res*);  
 b1=(AppCompatButton) findViewById(R.id.*add*);  
 b2=(AppCompatButton) findViewById(R.id.*sub*);  
 b3=(AppCompatButton) findViewById(R.id.*div*);  
 b4=(AppCompatButton) findViewById(R.id.*multi*);  
 b5=(AppCompatButton) findViewById(R.id.*clear*);  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 if(ed1.getText().length()>0 && (ed2.getText().length()>0)){  
 int first=Integer.*parseInt*(ed1.getText().toString());  
 int second=Integer.*parseInt*(ed2.getText().toString());  
 int result=first+second;  
 ed3.setText(Integer.*toString*(result));  
 }  
 }  
 });  
 b2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 if(ed1.getText().length()>0 && (ed2.getText().length()>0)){  
 double first=Double.*parseDouble*(ed1.getText().toString());  
 double second=Double.*parseDouble*(ed2.getText().toString());  
 double result=first-second;  
 ed3.setText(Double.*toString*(result));  
 }  
 }  
 });  
 b3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 if(ed1.getText().length()>0 && (ed2.getText().length()>0)){  
 double first=Double.*parseDouble*(ed1.getText().toString());  
 double second=Double.*parseDouble*(ed2.getText().toString());  
 double result=first/second;  
 ed3.setText(Double.*toString*(result));  
 }  
 }  
 });  
 b4.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 if(ed1.getText().length()>0 && (ed2.getText().length()>0)){  
 double first=Double.*parseDouble*(ed1.getText().toString());  
 double second=Double.*parseDouble*(ed2.getText().toString());  
 double result=first\*second;  
 ed3.setText(Double.*toString*(result));  
 }  
 }  
 });  
 b5.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 ed1.setText("");  
 ed2.setText("");  
 ed3.setText("");  
 }  
 });  
 }  
}

**Output**

**Program 6**

**Layout 1**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".MainActivity"  
 tools:ignore="HardcodedText">  
 <EditText  
 android:id="@+id/firstName"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="16dp"  
 android:layout\_marginEnd="16dp"  
 android:hint="First Name"  
 android:inputType="text"/>  
 <EditText  
 android:id="@+id/lastName"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="16dp"  
 android:layout\_marginEnd="16dp"  
 android:hint="Last Name"  
 android:inputType="text"/>  
 <EditText  
 android:id="@+id/email"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="16dp"  
 android:layout\_marginEnd="16dp"  
 android:hint="Email"  
 android:inputType="textEmailAddress"/>  
 <EditText  
 android:id="@+id/password"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="16dp"  
 android:layout\_marginEnd="16dp"  
 android:hint="Password"  
 android:inputType="textPassword"/>  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:gravity="end"  
 android:orientation="horizontal">  
 <Button  
 android:id="@+id/cancelButton"  
 style="@style/Widget.AppCompat.Button.Borderless"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="4dp"  
 android:text="CANCEL"  
 android:textColor="@color/design\_default\_color\_primary"/>  
 <Button  
 android:id="@+id/proceedButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="16dp"  
 android:backgroundTint="@color/design\_default\_color\_primary"  
 android:text="PROCEED"  
 android:textColor="@android:color/white"  
 tools:ignore="Buttonstyle"/>  
  
  
  
</LinearLayout>  
  
</LinearLayout>

**Layout 2**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"  
 tools:ignore="HardcodedText">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerInParent="true"  
 android:textSize="18sp"/>  
  
</RelativeLayout>

**Java**

package com.example.validation;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.util.Patterns;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
 Button bcancel,bproceed;  
 EditText etFirstName,etLastName,etEmail,etPassword;  
 boolean isAllFieldsChecked=false;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 bproceed=findViewById(R.id.*proceedButton*);  
 bcancel=findViewById(R.id.*cancelButton*);  
 etFirstName=findViewById(R.id.*firstName*);  
 etLastName=findViewById(R.id.*lastName*);  
 etEmail=findViewById(R.id.*email*);  
 etPassword=findViewById(R.id.*password*);  
 bproceed.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 isAllFieldsChecked=isAllFieldsCheckedAllFields();  
 if(isAllFieldsChecked){  
 Intent i=new Intent(String.*valueOf*(MainActivity.this));  
 startActivity(i);  
 }  
 }  
 });  
 bcancel.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 MainActivity.this.finish();  
 System.*exit*(0);  
 }  
 });  
 }  
  
 private boolean isAllFieldsCheckedAllFields() {  
 if(etFirstName.length()==0){  
 etFirstName.setError("This field is required");  
 return false;  
 }  
 if(etLastName.length()==0){  
 etLastName.setError("This field is required");  
 return false;  
 }  
 String email=etEmail.getText().toString();  
 if(!email.isEmpty()&& Patterns.*EMAIL\_ADDRESS*.matcher(email).matches()){  
  
 }else{  
 etEmail.setError("Enter valid email");  
 return false;  
 }  
 if(etPassword.length()==0){  
 etPassword.setError("Password is required");  
 return false;  
 }  
 else if(etPassword.length()<8){  
 etPassword.setError("Password must be minimum 8 character");  
 return false;  
  
 }  
 return false;  
 }  
}

**Output**

**Program 7**

**Layout**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.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/editText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 <Button  
 android:id="@+id/btn"  
 android:text="Search"  
 android:onClick="search"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editText"/>  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Java**

package com.example.implicitintent;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.net.Uri;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 EditText editText;  
 Button button;  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 button=findViewById(R.id.*btn*);  
 editText=(EditText) findViewById(R.id.*editText*);  
 button.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String url=editText.getText().toString();  
 Intent intent=new Intent(Intent.*ACTION\_VIEW*, Uri.*parse*(url));  
 startActivity(intent);  
 }  
 });  
  
 }  
}

**Output**

**Program 7**

**Layout1**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.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/editText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="welcome to home screen"  
 android:textAlignment="center"  
 android:textSize="28sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 <Button  
 android:id="@+id/btn1"  
 android:text="Go to News screen"  
 android:onClick="newsScreen"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editText"/>  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Layout2**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.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=".MainActivity2">  
 <TextView  
 android:id="@+id/editText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="welcome to GFG News screen"  
 android:textAlignment="center"  
 android:textSize="28sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/btn2"  
 android:text="Go to Home screen"  
 android:onClick="homeScreen"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editText"  
 app:layout\_constraintVertical\_bias="0.516" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Java1

package com.example.explicit;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 }  
 public void newsScreen(View view){  
 Intent i =new Intent(getApplicationContext(),MainActivity2.class);  
 startActivity(i);  
 }  
}

java2

package com.example.explicit;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity2 extends AppCompatActivity {  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main2*);  
 }  
 public void homeScreen(View view){  
 Intent i=new Intent(getApplicationContext(),MainActivity.class);  
 startActivity(i);  
 }  
  
  
}

Program 9

Layout

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
 <ImageView  
 android:layout\_width="80dp"  
 android:layout\_height="80dp"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="80dp"  
 android:src="@drawable/fb\_logo"/>  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginTop="80dp"  
 android:layout\_marginRight="20dp"  
 android:backgroundTint="#d3d3d3"  
 android:hint="Username or Email"  
 android:inputType="textEmailAddress"  
 android:maxLines="1"  
 android:padding="10dp"  
 android:textColor="#000000"  
 android:textColorHint="#d3d3d3"/>  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginTop="80dp"  
 android:layout\_marginRight="20dp"  
 android:backgroundTint="#d3d3d3"  
 android:hint="password"  
 android:inputType="textPassword"  
 android:maxLines="1"  
 android:padding="10dp"  
 android:textColor="#000000"  
 android:textColorHint="#d3d3d3"/>  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/btnlogin"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginTop="35dp"  
 android:layout\_marginRight="20dp"  
 android:backgroundTint="#5c6bc0"  
 android:padding="10dp"  
 android:text="Login"  
 android:textColor="#ffffff"  
 android:textSize="16sp"  
 android:textStyle="bold"/>  
 <RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content">  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentBottom="true"  
 android:orientation="vertical">  
  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/txtSignUp"  
 android:gravity="center\_horizontal"  
 android:text="Sign up for facebook"  
 android:textColor="#ffffff"/>  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/txtForgetPassword"  
 android:gravity="center\_horizontal"  
 android:layout\_marginTop="15dp"  
 android:layout\_marginBottom="15dp"  
 android:text="Forgot Password"  
 android:textColor="#ffffff"/>  
  
  
  
 </LinearLayout>  
 </RelativeLayout>  
</LinearLayout>

Program 10

Mnaifest.xml

<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools">  
  
 <application  
 android:allowBackup="true"  
 android:dataExtractionRules="@xml/data\_extraction\_rules"  
 android:fullBackupContent="@xml/backup\_rules"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.Menubar"  
 tools:targetApi="31">  
 <activity  
 android:name=".MainActivity"  
 android:exported="true">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
  
 <meta-data  
 android:name="android.app.lib\_name"  
 android:value="" />  
 </activity>  
 </application>  
  
</manifest>

Menu.xml

<?xml version="1.0" encoding="utf-8"?>  
<menu xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto">  
 <item  
 android:id="@+id/item1"  
 android:icon="@drawable/ic\_icon\_foreground"  
 android:title="Item 1"  
 app:showAsAction="ifRoom"/>  
 <item  
 android:id="@+id/item2"  
  
 android:title="Item 2"  
 app:showAsAction="never"/>  
 <item  
 android:id="@+id/item3"  
  
 android:title="Item 3"  
 app:showAsAction="never">  
  
 <menu>  
  
 <item  
 android:id="@+id/subitem1"  
 android:title="Sub Item 1"/>  
 <item  
 android:id="@+id/subitem2"  
 android:title="Sub Item 2"/>  
 </menu>  
  
 </item>  
  
</menu>

Java

package com.example.menubar;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.Menu;  
import android.view.MenuInflater;  
import android.view.MenuItem;  
import android.widget.Toast;  
  
  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 }  
 @Override  
 public boolean onCreateOptionsMenu(Menu menu)  
 {  
 MenuInflater inflater=getMenuInflater();  
 inflater.inflate(R.menu.*example\_menu*,menu);  
 return true;  
 }  
 @Override  
 public boolean onOptionsItemSelected(MenuItem item){  
 switch (item.getItemId()){  
 case R.id.*item1*:  
 Toast.*makeText*(this,"item1 selected",Toast.*LENGTH\_SHORT*).show();  
 return true;  
 case R.id.*item2*:  
 Toast.*makeText*(this,"item2 selected",Toast.*LENGTH\_SHORT*).show();  
 return true;  
 case R.id.*item3*:  
 Toast.*makeText*(this,"item3 selected",Toast.*LENGTH\_SHORT*).show();  
 return true;  
 case R.id.*subitem1*:  
 Toast.*makeText*(this,"subitem1 selected",Toast.*LENGTH\_SHORT*).show();  
 return true;  
 case R.id.*subitem2*:  
 Toast.*makeText*(this,"subitem2 selected",Toast.*LENGTH\_SHORT*).show();  
 return true;  
 default:  
 return super.onOptionsItemSelected(item);  
 }  
 }  
}

Program 11

Layout

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout 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:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Show Alert"  
 android:id="@+id/getBtn"  
 android:layout\_marginLeft="150dp"  
 android:layout\_marginTop="200dp"/>  
  
</RelativeLayout>

Java

package com.example.alertbox;  
  
import androidx.appcompat.app.AlertDialog;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.DialogInterface;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 Button btn=(Button) findViewById(R.id.*getBtn*);  
 btn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 AlertDialog.Builder builder=new AlertDialog.Builder(MainActivity.this);  
 builder.setTitle("Login Alert").setMessage("Are you sure,you want to continue?").setCancelable(false).setPositiveButton("yes", new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialogInterface, int which) {  
 Toast.*makeText*(MainActivity.this,"selected option:Yes",Toast.*LENGTH\_SHORT*).show();  
  
 }  
 })  
 .setNegativeButton("No", new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialogInterface, int which) {  
 Toast.*makeText*(MainActivity.this,"Selected Option:No",Toast.*LENGTH\_SHORT*).show();  
  
 }  
 });  
 AlertDialog dialog=builder.create();  
 dialog.show();  
 }  
 });  
 }  
}

Program 12

Layout

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout 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="wrap\_content"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/txtVw"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="50dp"  
 android:layout\_marginTop="150dp"  
 android:text="Selected User:"  
 android:textStyle="bold"  
 android:textSize="15dp"/>  
 <Spinner  
 android:id="@+id/spinner1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignBottom="@+id/txtVw"  
 android:layout\_toRightOf="@+id/txtVw"/>  
  
</RelativeLayout>

Java

* package com.example.spinner;  
    
  import androidx.appcompat.app.AppCompatActivity;  
    
  import android.os.Bundle;  
  import android.view.View;  
  import android.widget.Adapter;  
  import android.widget.AdapterView;  
  import android.widget.ArrayAdapter;  
  import android.widget.Spinner;  
  import android.widget.Toast;  
    
  public class MainActivity extends AppCompatActivity implements AdapterView.OnItemSelectedListener {  
   String[] users={"Prasanth A V","sandra Suresh","Nithin Andrews","Akhila Aravind","Gayathri"};  
    
   @Override  
   protected void onCreate(Bundle savedInstanceState) {  
   super.onCreate(savedInstanceState);  
   setContentView(R.layout.*activity\_main*);  
   Spinner spin=(Spinner) findViewById(R.id.*spinner1*);  
   ArrayAdapter<String>adapter=new ArrayAdapter<String>(this, android.R.layout.*simple\_spinner\_item*,users);  
   adapter.setDropDownViewResource(android.R.layout.*simple\_spinner\_dropdown\_item*);  
   spin.setAdapter(adapter);  
   spin.setOnItemSelectedListener(this);}  
   @Override  
   public void onItemSelected(AdapterView<?> arg0, View arg1, int position, long id){  
   Toast.*makeText*(getApplicationContext(),"Selected User:"+users[position],Toast.*LENGTH\_LONG*).show();  
   }  
   @Override  
   public void onNothingSelected(AdapterView<?> arg0){  
    
   }  
  }

Program 13

Themes.xml

* <resources xmlns:tools="http://schemas.android.com/tools">  
   <!-- Base application theme. -->  
   <style name="Theme.Themes" parent="Theme.MaterialComponents.DayNight.DarkActionBar">  
   <!-- Primary brand color. -->  
   <item name="colorPrimary">@color/purple\_500</item>  
   <item name="colorPrimaryVariant">@color/purple\_700</item>  
   <item name="colorOnPrimary">@color/white</item>  
   <!-- Secondary brand color. -->  
   <item name="colorSecondary">@color/teal\_200</item>  
   <item name="colorSecondaryVariant">@color/teal\_700</item>  
   <item name="colorOnSecondary">@color/black</item>  
   <!-- Status bar color. -->  
   <item name="android:statusBarColor">?attr/colorPrimaryVariant</item>  
   <!-- Customize your theme here. -->  
   </style>  
   <style name="TextviewStyle" parent="@android:style/Widget.TextView">  
   <item name="android:layout\_width">wrap\_content</item>  
   <item name="android:layout\_height">wrap\_content</item>  
   <item name="android:layout\_marginLeft">100dp</item>  
   <item name="android:layout\_marginTop">10dp</item>  
   <item name="android:textColor">#86AD33</item>  
   <item name="android:textStyle">bold</item>  
   <item name="android:textSize">20dp</item>  
   </style>  
   <style name="ButtonStyle" parent="@android:style/Widget.Button">  
   <item name="android:layout\_width">200dp</item>  
   <item name="android:layout\_height">wrap\_content</item>  
   <item name="android:layout\_marginLeft">100dp</item>  
   <item name="android:layout\_marginTop">10dp</item>  
   <item name="android:textColor">#FFFFFF</item>  
   <item name="android:background">#F1511B</item>  
   <item name="android:textStyle">bold</item>  
   <item name="android:textSize">15dp</item>  
   </style>  
   <string name="wlcmsg">Welcome to Tutlane</string>  
  </resources>

Layout

* <?xml version="1.0" encoding="utf-8"?>  
  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
   xmlns:app="http://schemas.android.com/apk/res-auto"  
   xmlns:tools="http://schemas.android.com/tools"  
   android:layout\_width="match\_parent"  
   android:layout\_height="match\_parent"  
   android:orientation="vertical"  
   tools:context=".MainActivity">  
    
   <TextView  
   android:layout\_width="wrap\_content"  
   android:layout\_height="wrap\_content"  
   android:id="@+id/TextView1"  
   android:layout\_marginLeft="100dp"  
   android:layout\_marginTop="200dp"  
   android:textColor="#00ADEF"  
   android:textSize="15dp"  
   android:text="@string/wlcmsg"></TextView>  
   <TextView  
   android:id="@+id/TextView2"  
   style="@style/TextviewStyle"  
   android:text="Welcome to Turlane"/>  
   <Button  
   android:layout\_width="wrap\_content"  
   android:layout\_height="wrap\_content"  
   android:id="@+id/btnShow"  
   android:text="Click on Button"  
   style="@style/ButtonStyle"/>  
    
    
  </LinearLayout>

Program 14

Layout

* <?xml version="1.0" encoding="utf-8"?>  
  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
   xmlns:app="http://schemas.android.com/apk/res-auto"  
   xmlns:tools="http://schemas.android.com/tools"  
    
   android:layout\_width="match\_parent"  
   android:layout\_height="match\_parent"  
   tools:context=".MainActivity"  
   android:orientation="vertical">  
    
   <TextView  
   android:layout\_width="wrap\_content"  
   android:layout\_height="wrap\_content"  
   android:text="Student Details"  
   android:layout\_x="50dp"  
   android:layout\_y="20dp"  
   android:textSize="30sp" />  
   <TextView  
   android:layout\_width="wrap\_content"  
   android:layout\_height="wrap\_content"  
   android:text="Enter roll no"  
   android:layout\_x="20dp"  
   android:layout\_y="110dp"  
   android:textSize="20sp" />  
   <EditText  
   android:id="@+id/Rollno"  
   android:layout\_width="150dp"  
   android:layout\_height="wrap\_content"  
   android:inputType="number"  
   android:layout\_x="175dp"  
   android:layout\_y="100dp"  
   android:textSize="20sp" />  
   <TextView  
   android:layout\_width="wrap\_content"  
   android:layout\_height="wrap\_content"  
   android:text="Enter name"  
   android:layout\_x="20dp"  
   android:layout\_y="160dp"  
   android:textSize="20sp" />  
   <EditText  
   android:id="@+id/Name"  
   android:layout\_width="150dp"  
   android:layout\_height="wrap\_content"  
   android:inputType="text"  
   android:layout\_x="175dp"  
   android:layout\_y="100dp"  
   android:textSize="20sp" />  
   <TextView  
   android:layout\_width="wrap\_content"  
   android:layout\_height="wrap\_content"  
   android:text="Enter mark"  
   android:layout\_x="20dp"  
   android:layout\_y="210dp"  
   android:textSize="20sp" />  
   <EditText  
   android:id="@+id/Marks"  
   android:layout\_width="150dp"  
   android:layout\_height="wrap\_content"  
   android:inputType="number"  
   android:layout\_x="175dp"  
   android:layout\_y="200dp"  
   android:textSize="20sp" />  
   <Button  
   android:id="@+id/Insert"  
   android:layout\_width="150dp"  
   android:layout\_height="wrap\_content"  
   android:text="Insert"  
   android:layout\_x="25dp"  
   android:layout\_y="300dp"  
   android:textSize="30sp" />  
   <Button  
   android:id="@+id/Delete"  
   android:layout\_width="150dp"  
   android:layout\_height="wrap\_content"  
   android:text="Delete"  
   android:layout\_x="200dp"  
   android:layout\_y="300dp"  
   android:textSize="30sp" />  
   <Button  
   android:id="@+id/Update"  
   android:layout\_width="150dp"  
   android:layout\_height="wrap\_content"  
   android:text="Update"  
   android:layout\_x="25dp"  
   android:layout\_y="400dp"  
   android:textSize="30sp" />  
   <Button  
   android:id="@+id/View"  
   android:layout\_width="150dp"  
   android:layout\_height="wrap\_content"  
   android:text="View"  
   android:layout\_x="200dp"  
   android:layout\_y="400dp"  
   android:textSize="30sp" />  
   <Button  
   android:id="@+id/ViewAll"  
   android:layout\_width="200dp"  
   android:layout\_height="wrap\_content"  
   android:text="View All"  
   android:layout\_x="100dp"  
   android:layout\_y="500dp"  
   android:textSize="30sp" />  
  </LinearLayout>

Java

* package com.example.crudsqlite;  
    
  import androidx.appcompat.app.AlertDialog;  
  import androidx.appcompat.app.AppCompatActivity;  
    
  import android.content.Context;  
  import android.database.Cursor;  
  import android.database.sqlite.SQLiteDatabase;  
  import android.net.Uri;  
  import android.os.Build;  
  import android.os.Bundle;  
  import android.view.View;  
  import android.widget.Button;  
  import android.widget.EditText;  
    
  public class MainActivity extends AppCompatActivity implements View.OnClickListener {  
   EditText Rollno, Name, Marks;  
   Button Insert, Delete, Update, View, ViewAll;  
   SQLiteDatabase db;  
    
   @Override  
   protected void onCreate(Bundle savedInstanceState) {  
   super.onCreate(savedInstanceState);  
   setContentView(R.layout.*activity\_main*);  
   Rollno = (EditText) findViewById(R.id.*Rollno*);  
   Name = (EditText) findViewById(R.id.*Name*);  
   Marks = (EditText) findViewById(R.id.*Marks*);  
   Insert = (Button) findViewById(R.id.*Insert*);  
   Delete = (Button) findViewById(R.id.*Delete*);  
   Update = (Button) findViewById(R.id.*Update*);  
   View = (Button) findViewById(R.id.*View*);  
   ViewAll = (Button) findViewById(R.id.*ViewAll*);  
    
   Insert.setOnClickListener(this);  
   Delete.setOnClickListener(this);  
   Update.setOnClickListener(this);  
   View.setOnClickListener(this);  
   ViewAll.setOnClickListener(this);  
    
   db = openOrCreateDatabase("StudentDB", Context.*MODE\_PRIVATE*, null);  
   db.execSQL("CREATE TABLE IF NOT EXISTS student(rollno VARCHAR,name VARCHAR,marks VARCHAR);");  
    
   }  
    
   public void onClick(android.view.View view) {  
   if (view == Insert) {  
   if (Rollno.getText().toString().trim().length() == 0 || Name.getText().toString().trim().length() == 0 || Marks.getText().toString().trim().length() == 0) {  
   showMessage("Error", "Please enter all values");  
   return;  
    
   }  
   db.execSQL("INSERT INTO student VALUES('" + Rollno.getText() + "','" + Name.getText() + "','" + Marks.getText() + "');");  
   showMessage("Success", "Record added");  
   clearText();  
   }  
   if (view == Delete) {  
   if (Rollno.getText().toString().trim().length() == 0) {  
   showMessage("Error", "Please enter rollno");  
   return;  
    
   }  
   Cursor c = db.rawQuery("SELECT \* FROM student WHERE rollno='" + Rollno.getText() + "'", null);  
   if (c.moveToFirst()) {  
   db.execSQL("DELETE FROM student WHERE rollno='" + Rollno.getText() + "' ");  
   showMessage("Success", "Record delete");  
   } else {  
    
   showMessage("Error", "Invalid rollno");  
   }  
   clearText();  
   }  
   if (view == Update) {  
   if (Rollno.getText().toString().trim().length() == 0) {  
   showMessage("Error", "Please enter rollno");  
   return;  
    
   }  
   Cursor c = db.rawQuery("SELECT \* FROM student WHERE rollno='" + Rollno.getText() + "'", null);  
   if (c.moveToFirst()) {  
   db.execSQL("UPDATE student SET name='"+Name.getText()+"',marks='"+Marks.getText()+"' WHERE rollno='" + Rollno.getText() + "' ");  
   showMessage("Success", "Record Modified");  
   } else {  
    
   showMessage("Error", "Invalid rollno");  
   }  
   clearText();  
   }  
   if (view == View) {  
   if (Rollno.getText().toString().trim().length() == 0) {  
   showMessage("Error", "Please enter rollno");  
   return;  
    
   }  
   Cursor c = db.rawQuery("SELECT \* FROM student WHERE rollno='" + Rollno.getText() + "'", null);  
   if (c.moveToFirst()) {  
   Name.setText((c.getString(1)));  
   Marks.setText((c.getString(2)));  
    
   } else {  
    
   showMessage("Error", "Invalid rollno");  
   clearText();  
   }  
   if (view == ViewAll) {  
   Cursor cursor = db.rawQuery("SELECT \* FROM student" ,null);  
   if(cursor.getCount()==0){  
   showMessage("Error", "No records found");  
   return;  
   }  
   StringBuffer buffer=new StringBuffer();  
   while (c.moveToNext()){  
   buffer.append("Rollno:"+cursor.getString(0)+"\n");  
   buffer.append("Name:"+cursor.getString(1)+"\n");  
   buffer.append("Marks:"+cursor.getString(2)+"\n");  
   }  
   showMessage("Student Details",buffer.toString());  
   }  
   }  
    
    
   }  
    
   private void clearText() {  
   Rollno.setText("");  
   Name.setText("");  
   Marks.setText("");  
   Rollno.requestFocus();  
   }  
    
   private void showMessage(String title, String message) {  
   AlertDialog.Builder builder=new AlertDialog.Builder(this);  
   builder.setCancelable(true);  
   builder.setTitle(title);  
   builder.setMessage(message);  
   builder.show();  
   }  
  }