

UIT1711-MOBILE APPLICATION  
DEVELOPMENT LAB

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**EX NO:1,2      Develop an application that uses GUI components, Font,Colours and**  
**DATE:                      use Layout Managers and event listeners.**

**AIM:** To Develop an application that uses GUI components, Font and Colours and  
an application that uses Layout Managers and event listeners.

**CODE:**

**Main.dart**

```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    final appTitle = 'IcyRobins';

    return MaterialApp(
      title: appTitle,
      home: Scaffold(
        backgroundColor: Colors.cyanAccent,
        appBar: AppBar(
          title: Text(appTitle),
        ),
        body: AddTwoNumbers(),
      ),
    );
  }
}

class AddTwoNumbers extends StatefulWidget {
  @override
  _AddTwoNumbersState createState() => _AddTwoNumbersState();
}

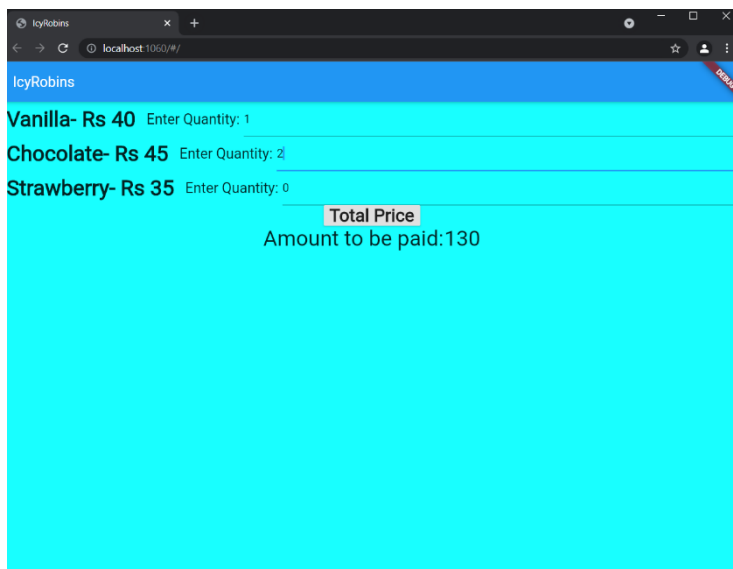
class _AddTwoNumbersState extends State<AddTwoNumbers> {
  TextEditingController num1controller = new TextEditingController()..text="0";
  TextEditingController num2controller = new TextEditingController()..text="0";
  TextEditingController num3controller = new TextEditingController()..text="0";

  String result = "0";
  @override
  Widget build(BuildContext context) {
```

```
return Container(  
  child: Column(  
    children: <Widget>[  
      Row(  
        children: <Widget>[  
  
          Text(" Vanilla- Rs 40 ",style:TextStyle(fontWeight: FontWeight.bold,fontSize:  
30)),  
          Text("Enter Quantity: ",style: TextStyle(fontSize: 20),),  
          new Flexible(  
            child: new TextField(  
              keyboardType: TextInputType.number,  
              controller: num1controller,  
            ),  
          ),  
        ],  
      ),  
      Row(  
        children: <Widget>[  
          Text(" Chocolate- Rs 45 ",style:TextStyle(fontWeight: FontWeight.bold,fontSize:  
30)),  
          Text("Enter Quantity: ",style: TextStyle(fontSize: 20),),  
          new Flexible(  
            child: new TextField(  
              keyboardType: TextInputType.number,  
              controller: num2controller,  
            ),  
          ),  
        ],  
      ),  
      Row(  
        children: <Widget>[  
          Text(" Strawberry- Rs 35 ",style:TextStyle(fontWeight: FontWeight.bold,fontSize:  
30)),  
          Text("Enter Quantity: ",style: TextStyle(fontSize: 20),),  
          new Flexible(  
            child: new TextField(  
              keyboardType: TextInputType.number,  
              controller: num3controller,  
            ),  
          ),  
        ],  
      ),  
  
      Row(  
        mainAxisAlignment: MainAxisAlignment.center,  
        children: <Widget>[
```

```
        RaisedButton(
          child: Text("Total Price",style: TextStyle(fontSize: 25,fontWeight:
FontWeight.bold),),
          onPressed : () {
            setState(() {
              int sum = int.parse(num1controller.text)*40 + int.parse(num2controller.text)*45
+int.parse(num3controller.text)*35;
              result = sum.toString();
            });
          },
        )
      ],
    ),
    Row(
      mainAxisAlignment: MainAxisAlignment.center,
      children: <Widget>[
        Text("Amount to be paid:",
          style: TextStyle(
            fontSize: 30,
          ),),
        Text(result,
          style: TextStyle(
            fontSize: 30,
          ),),
      ],
    ),
  ],
),
],
),
);
}
}
```

## OUTPUT:



## RESULT:

Thus the application that uses GUI components, Font and Colours and an application that uses Layout Managers and event listeners using flutter was created successfully.

**EX NO:03                      Develop a Native Calculator Application**

**DATE:**

**AIM:** To develop a native calculator application.

**CODE:**

**Main.dart**

```
import 'package:flutter/material.dart';
import 'package:math_expressions/math_expressions.dart';

void main(){
  runApp(Calculator());
}

class Calculator extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: 'Calculator',
      theme: ThemeData(primarySwatch: Colors.blue),
      home: SimpleCalculator(),
    );
  }
}

class SimpleCalculator extends StatefulWidget {
  @override
  _SimpleCalculatorState createState() => _SimpleCalculatorState();
}

class _SimpleCalculatorState extends State<SimpleCalculator> {

  String equation = "0";
  String result = "0";
  String expression = "";
  double equationFontSize = 38.0;
  double resultFontSize = 48.0;

  buttonPressed(String buttonText){
    setState() {
      if(buttonText == "C"){
        equation = "0";
        result = "0";
        equationFontSize = 38.0;
        resultFontSize = 48.0;
      }
    }
  }
}
```

```
else if(buttonText == "□"){
    equationFontSize = 48.0;
    resultFontSize = 38.0;
    equation = equation.substring(0, equation.length - 1);
    if(equation == ""){
        equation = "0";
    }
}

else if(buttonText == "="){
    equationFontSize = 38.0;
    resultFontSize = 48.0;

    expression = equation;
    expression = expression.replaceAll('×', '*');
    expression = expression.replaceAll('÷', '/');

    try{
        Parser p = Parser();
        Expression exp = p.parse(expression);

        ContextModel cm = ContextModel();
        result = '${exp.evaluate(EvaluationType.REAL, cm)}';
    }catch(e){
        result = "Error";
    }
}

else{
    equationFontSize = 48.0;
    resultFontSize = 38.0;
    if(equation == "0"){
        equation = buttonText;
    }else {
        equation = equation + buttonText;
    }
}
});
}

Widget buildButton(String buttonText, double buttonHeight, Color buttonColor){
    return Container(
        height: MediaQuery.of(context).size.height * 0.1 * buttonHeight,
        color: buttonColor,
        child: FlatButton(
```

```
shape: RoundedRectangleBorder(
  borderRadius: BorderRadius.circular(0.0),
  side: BorderSide(
    color: Colors.white,
    width: 1,
    style: BorderStyle.solid
  )
),
padding: EdgeInsets.all(16.0),
onPressed: () => buttonPressed(buttonText),
child: Text(
  buttonText,
  style: TextStyle(
    fontSize: 30.0,
    fontWeight: FontWeight.normal,
    color: Colors.white
  ),
),
);
}
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(title: Text('Calculator')),
    body: Column(
      children: <Widget>[
        Container(
          alignment: Alignment.centerRight,
          padding: EdgeInsets.fromLTRB(10, 20, 10, 0),
          child: Text(equation, style: TextStyle(fontSize: equationFontSize)),
        ),
        Container(
          alignment: Alignment.centerRight,
          padding: EdgeInsets.fromLTRB(10, 30, 10, 0),
          child: Text(result, style: TextStyle(fontSize: resultFontSize)),
        ),
        Expanded(
          child: Divider(),
        ),
        Row(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Container(
              width: MediaQuery.of(context).size.width * .75,
              child: Table(
                children: [
```

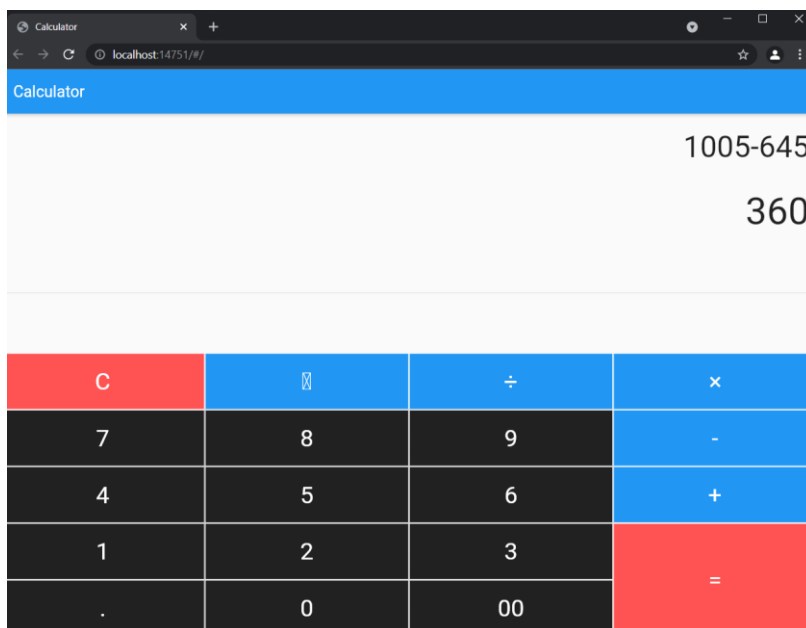


```
TableRow(  
  children: [  
    buildButton("C", 1, Colors.redAccent),  
    buildButton("□", 1, Colors.blue),  
    buildButton("÷", 1, Colors.blue),  
  ]  
)  
  
TableRow(  
  children: [  
    buildButton("7", 1, Colors.black87),  
    buildButton("8", 1, Colors.black87),  
    buildButton("9", 1, Colors.black87),  
  ]  
)  
  
TableRow(  
  children: [  
    buildButton("4", 1, Colors.black87),  
    buildButton("5", 1, Colors.black87),  
    buildButton("6", 1, Colors.black87),  
  ]  
)  
  
TableRow(  
  children: [  
    buildButton("1", 1, Colors.black87),  
    buildButton("2", 1, Colors.black87),  
    buildButton("3", 1, Colors.black87),  
  ]  
)  
TableRow(  
  children: [  
    buildButton(".", 1, Colors.black87),  
    buildButton("0", 1, Colors.black87),  
    buildButton("00", 1, Colors.black87),  
  ]  
)  
],  
)  
)  
Container(  
  width: MediaQuery.of(context).size.width * 0.25,  
  child: Table(  
    children: [  
      TableRow(  
        children: [  
          buildButton("C", 1, Colors.redAccent),  
          buildButton("□", 1, Colors.blue),  
          buildButton("÷", 1, Colors.blue),  
        ]  
      ),  
      TableRow(  
        children: [  
          buildButton("7", 1, Colors.black87),  
          buildButton("8", 1, Colors.black87),  
          buildButton("9", 1, Colors.black87),  
        ]  
      ),  
      TableRow(  
        children: [  
          buildButton("4", 1, Colors.black87),  
          buildButton("5", 1, Colors.black87),  
          buildButton("6", 1, Colors.black87),  
        ]  
      ),  
      TableRow(  
        children: [  
          buildButton("1", 1, Colors.black87),  
          buildButton("2", 1, Colors.black87),  
          buildButton("3", 1, Colors.black87),  
        ]  
      ),  
      TableRow(  
        children: [  
          buildButton(".", 1, Colors.black87),  
          buildButton("0", 1, Colors.black87),  
          buildButton("00", 1, Colors.black87),  
        ]  
      ),  
    ],  
  ),  
)
```

```
        buildButton("×", 1, Colors.blue),
      ],
    ),
    TableRow(
      children: [
        buildButton("-", 1, Colors.blue),
      ],
    ),
    TableRow(
      children: [
        buildButton("+", 1, Colors.blue),
      ],
    ),

    TableRow(
      children: [
        buildButton("=", 2, Colors.redAccent),
      ],
    ),
  ], ), ) ],
),
],
),
);
}
}
```

### OUTPUT:



### RESULT:

Thus the native calculator application using flutter has been created successfully.

**EX NO:04    Develop an Application that draws basic Graphical Primitives on the**

**DATE:** \_\_\_\_\_ **screen**

**AIM:** To write an application that draws basic graphical primitives on the screen.

**CODE:**

**Main.dart**

```
import 'package:flutter/material.dart';

void main() => runApp(HomePage());

class HomePage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      theme: ThemeData(
        brightness: Brightness.dark,
        accentColor: Colors.teal,
      ),
      home: Scaffold(
        appBar: AppBar(
          title: Text('Custom Shapes'),
        ),
        body: Padding(
          padding: EdgeInsets.all(8.0),
          child: CustomPaint(
            painter: ShapesPainter(),
            child: Container(
              height: 700,
            ),
          ),
        ),
      ),
    );
  }
}

class ShapesPainter extends CustomPainter {
  @override
  void paint(Canvas canvas, Size size) {
    final paint = Paint();

    // set the paint color to be white
```

```
paint.color = Colors.greenAccent;

// Create a rectangle with size and width same as the canvas
var rect = Rect.fromLTWH(0, 0, size.width, size.height);

// draw the rectangle using the paint
canvas.drawRect(rect, paint);

paint.color = Colors.teal;

// create a path
var path = Path();
path.lineTo(0, size.height);
path.lineTo(size.width, 0);
// close the path to form a bounded shape
path.close();

//canvas.drawPath(path, paint);

// set the color property of the paint
paint.color = Colors.teal;

// center of the canvas is (x,y) => (width/2, height/2)
var center = Offset(size.width / 2, size.height / 2);

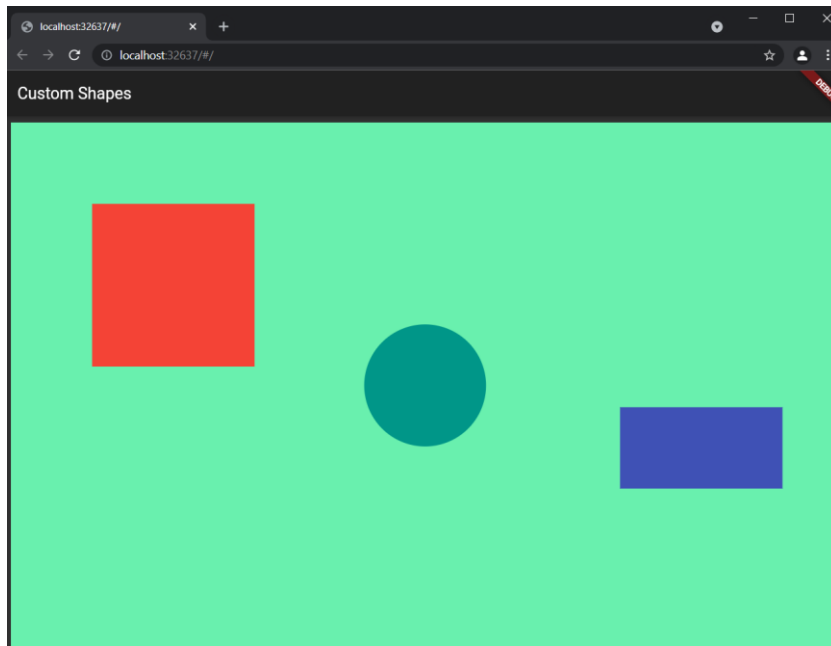
// draw the circle with center having radius 75.0
canvas.drawCircle(center, 75.0, paint);

paint.color = Colors.red;
canvas.drawRect(Offset(100,100) & Size(200,200), paint);
paint.color = Colors.indigo;
canvas.drawRect(Offset(750,350) & Size(200,100), paint);

}

@override
bool shouldRepaint(CustomPainter oldDelegate) => false;
}
```

## OUTPUT:



## RESULT:

Thus the flutter program to draw the basic primitives has been executed successfully.

**EX NO:05**                      **Develop an application that makes use of database.**

**DATE:**

**AIM:** To develop an application that makes use of database

**CODE:**

**Mainactivity.java**

```
package com.example.ex05;

import android.app.Activity;
import android.app.AlertDialog.Builder;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends Activity implements OnClickListener {
    EditText Rollno, Name, Marks;
    Button Insert, Delete, Update, View, ViewAll;
    SQLiteDatabase db;

    /**
     * Called when the activity is first created.
     */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Rollno = (EditText) findViewById(R.id.Rollno);
        Name = (EditText) findViewById(R.id.Name);
        Marks = (EditText) findViewById(R.id.Marks);
        Insert = (Button) findViewById(R.id.Insert);
        Delete = (Button) findViewById(R.id.Delete);
        Update = (Button) findViewById(R.id.Update);
        View = (Button) findViewById(R.id.View);
        ViewAll = (Button) findViewById(R.id.ViewAll);

        Insert.setOnClickListener(this);
```

```
Delete.setOnClickListener(this);
Update.setOnClickListener(this);
View.setOnClickListener(this);
ViewAll.setOnClickListener(this);

// Creating database and table
db = openOrCreateDatabase("StudentDB", Context.MODE_PRIVATE, null);
db.execSQL("CREATE TABLE IF NOT EXISTS student(rollno VARCHAR,name
VARCHAR,marks VARCHAR);");
}

public void onClick(View view) {
    // Inserting a record to the Student table
    if (view == Insert) {
        // Checking for empty fields
        if (Rollno.getText().toString().trim().length() == 0 ||
            Name.getText().toString().trim().length() == 0 ||
            Marks.getText().toString().trim().length() == 0) {
            showMessage("Error", "Please enter all values");
            return;
        }
        db.execSQL("INSERT INTO student VALUES('\" + Rollno.getText() + \"',\" +
Name.getText() +
        \"\", \"\" + Marks.getText() + \"'\");");
        showMessage("Success", "Record added");
        clearText();
    }
    // Deleting a record from the Student table
    if (view == Delete) {
        // Checking for empty roll number
        if (Rollno.getText().toString().trim().length() == 0) {
            showMessage("Error", "Please enter Rollno");
            return;
        }
        Cursor c = db.rawQuery("SELECT * FROM student WHERE rollno=\"" +
Rollno.getText() + "\"", null);
        if (c.moveToFirst()) {
            db.execSQL("DELETE FROM student WHERE rollno=\"" + Rollno.getText() +
        "\"");
            showMessage("Success", "Record Deleted");
        } else {
            showMessage("Error", "Invalid Rollno");
        }
        clearText();
    }
    // Updating a record in the Student table
    if (view == Update) {
```

```
// Checking for empty roll number
if (Rollno.getText().toString().trim().length() == 0) {
    showMessage("Error", "Please enter Rollno");
    return;
}
Cursor c = db.rawQuery("SELECT * FROM student WHERE rollno='" +
Rollno.getText() + "'", null);
if (c.moveToFirst()) {
    db.execSQL("UPDATE student SET name='" + Name.getText() + "',marks='" +
Marks.getText() +
    "' WHERE rollno='" + Rollno.getText() + "'");
    showMessage("Success", "Record Modified");
} else {
    showMessage("Error", "Invalid Rollno");
}
clearText();
}
// Display a record from the Student table
if (view == View) {
    // Checking for empty roll number
    if (Rollno.getText().toString().trim().length() == 0) {
        showMessage("Error", "Please enter Rollno");
        return;
    }
    Cursor c = db.rawQuery("SELECT * FROM student WHERE rollno='" +
Rollno.getText() + "'", null);
    if (c.moveToFirst()) {
        Name.setText(c.getString(1));
        Marks.setText(c.getString(2));
    } else {
        showMessage("Error", "Invalid Rollno");
        clearText();
    }
}
// Displaying all the records
if (view == ViewAll) {
    Cursor c = db.rawQuery("SELECT * FROM student", null);
    if (c.getCount() == 0) {
        showMessage("Error", "No records found");
        return;
    }
    StringBuffer buffer = new StringBuffer();
    while (c.moveToNext()) {
        buffer.append("Rollno: " + c.getString(0) + "\n");
        buffer.append("Name: " + c.getString(1) + "\n");
        buffer.append("Marks: " + c.getString(2) + "\n\n");
    }
}
```



```
        showMessage("Student Details", buffer.toString());
    }
}

public void showMessage(String title, String message) {
    Builder builder = new Builder(this);
    builder.setCancelable(true);
    builder.setTitle(title);
    builder.setMessage(message);
    builder.show();
}

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

### Activity.main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#97FAE3">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_x="95dp"
        android:layout_y="22dp"
        android:text="Student Details"
        android:textColor="#009688"
        android:textSize="30sp"
        android:textStyle="bold" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_x="20dp"
        android:layout_y="110dp"
        android:text="Enter Rollno:"
        android:textColor="#000000"
        android:textSize="20sp" />
```

```
<EditText
    android:id="@+id/Rollno"
    android:layout_width="150dp"
    android:layout_height="wrap_content"
    android:layout_x="175dp"
    android:layout_y="100dp"
    android:inputType="number"
    android:textColor="#000000"
    android:textSize="20sp" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="20dp"
    android:layout_y="160dp"
    android:text="Enter Name:"
    android:textColor="#000000"
    android:textSize="20sp" />
```

```
<EditText
    android:id="@+id/Marks"
    android:layout_width="152dp"
    android:layout_height="wrap_content"
    android:layout_x="174dp"
    android:layout_y="198dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:textColor="#000000" />
```

```
<EditText
    android:id="@+id/Name"
    android:layout_width="150dp"
    android:layout_height="wrap_content"
    android:layout_x="175dp"
    android:layout_y="150dp"
    android:inputType="text"
    android:textColor="#000000"
    android:textSize="20sp" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="20dp"
    android:layout_y="210dp"
    android:text="Enter Marks:"
    android:textColor="#000000"
```

```
android:textSize="20sp" />
```

```
<Button  
    android:id="@+id/Insert"  
    android:layout_width="150dp"  
    android:layout_height="wrap_content"  
    android:layout_x="25dp"  
    android:layout_y="300dp"  
    android:backgroundTint="#009688"  
    android:text="Insert"  
    android:textSize="20dp" />
```

```
<Button  
    android:id="@+id/Delete"  
    android:layout_width="150dp"  
    android:layout_height="wrap_content"  
    android:layout_x="200dp"  
    android:layout_y="300dp"  
    android:backgroundTint="#009688"  
    android:text="Delete"  
    android:textSize="20dp" />
```

```
<Button  
    android:id="@+id/Update"  
    android:layout_width="150dp"  
    android:layout_height="wrap_content"  
    android:layout_x="25dp"  
    android:layout_y="400dp"  
    android:backgroundTint="#009688"  
    android:text="Update"  
    android:textSize="20dp" />
```

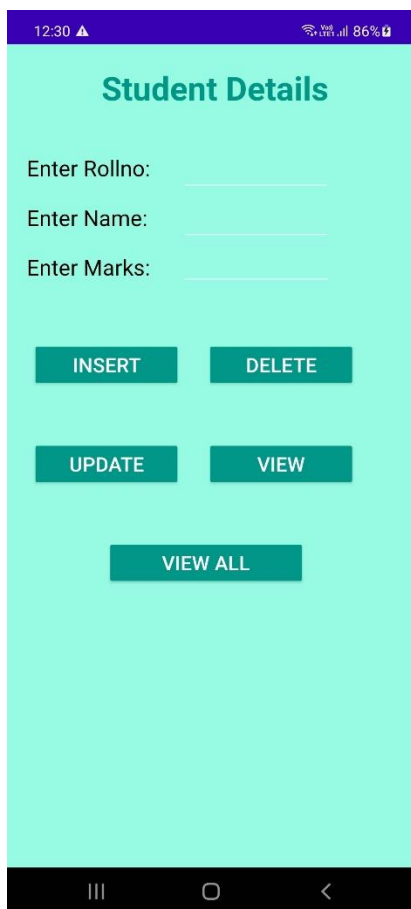
```
<Button  
    android:id="@+id/View"  
    android:layout_width="150dp"  
    android:layout_height="wrap_content"  
    android:layout_x="200dp"  
    android:layout_y="400dp"  
    android:backgroundTint="#009688"  
    android:text="View"  
    android:textSize="20dp" />
```

```
<Button  
    android:id="@+id/ViewAll"  
    android:layout_width="200dp"  
    android:layout_height="wrap_content"  
    android:layout_x="100dp"
```

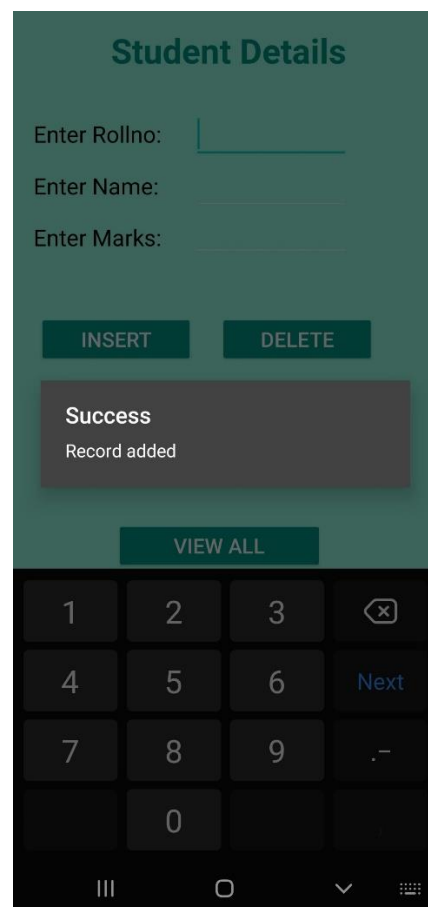
```
android:layout_y="500dp"  
android:backgroundTint="#009688"  
android:text="View All"  
android:textSize="20dp" />
```

</AbsoluteLayout>

## OUTPUT:



## Insert



## ViewAll

### Student Details

Enter Rollno:

Enter Name:

Enter Marks:

INSERT DELETE

**Student Details**  
Rollno: 112  
Name: Swetha  
Marks: 98

VIEW ALL

1

2

3

⌫

4

5

6

Next

7

8

9

.-

0

III

O

∨

⌨

## View

### Student Details

Enter Rollno:

Enter Name:

Enter Marks:

INSERT DELETE

UPDATE VIEW

VIEW ALL

1

2

3

⌫

4

5

6

Next

7

8

9

.-

0

III

O

∨

⌨

## Update

### Student Details

Enter Rollno:

Enter Name:

Enter Marks:

INSERT DELETE

**Success**  
Record Modified

VIEW ALL

1

2

3

⌫

4

5

6

Next

7

8

9

.-

0

III

O

∨

⌨

### Student Details

Enter Rollno:

Enter Name:

Enter Marks:

INSERT DELETE

**Student Details**  
Rollno: 112  
Name: Swetha  
Marks: 100

VIEW ALL

1

2

3

⌫

4

5

6

Next

7

8

9

.-

0

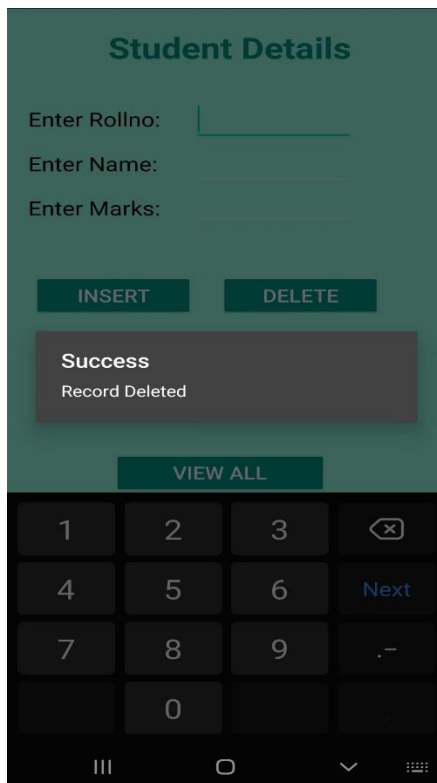
III

O

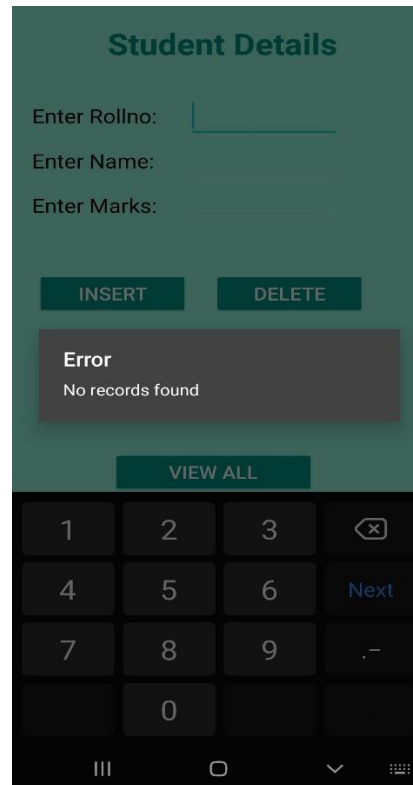
∨

⌨

## Delete



The screenshot shows the 'Student Details' app interface. At the top, there's a title 'Student Details'. Below it are three input fields: 'Enter Rollno:', 'Enter Name:', and 'Enter Marks:'. Under these fields are two buttons: 'INSERT' and 'DELETE'. A dark grey message box in the center displays 'Success' in bold and 'Record Deleted' below it. Below the message box is a 'VIEW ALL' button. At the bottom is a numeric keypad with digits 1-9, 0, a backspace icon, and a 'Next' button.



The screenshot shows the 'Student Details' app interface. At the top, there's a title 'Student Details'. Below it are three input fields: 'Enter Rollno:', 'Enter Name:', and 'Enter Marks:'. Under these fields are two buttons: 'INSERT' and 'DELETE'. A dark grey message box in the center displays 'Error' in bold and 'No records found' below it. Below the message box is a 'VIEW ALL' button. At the bottom is a numeric keypad with digits 1-9, 0, a backspace icon, and a 'Next' button.

## RESULT:

Thus the application making use of database has been created successfully.

**EX NO:06**                      **Develop an application that makes use of RSS Feed.**

**DATE:**

**AIM:** To develop an application that makes use of RSS Feed.

**CODE:**

**Mainactivity.java**

```
package com.example.ex06;

import android.app.ListActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.AsyncTask;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ListView;
import org.xmlpull.v1.XmlPullParser;
import org.xmlpull.v1.XmlPullParserException;
import org.xmlpull.v1.XmlPullParserFactory;
import java.io.IOException;
import java.io.InputStream;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.ArrayList;
import java.util.List;

public class MainActivity extends ListActivity
{
    List headlines;
    List links;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        new MyAsyncTask().execute();
    }

    class MyAsyncTask extends AsyncTask<Object,Void,ArrayAdapter>
    {
        @Override
        protected ArrayAdapter doInBackground(Object[] params)
        {
            headlines = new ArrayList();
```

```
links = new ArrayList();
try
{
    URL url = new URL("https://codingconnect.net/feed");
    XmlPullParserFactory factory = XmlPullParserFactory.newInstance();
    factory.setNamespaceAware(false);
    XmlPullParser xpp = factory.newPullParser();

    // We will get the XML from an input stream
    xpp.setInput(getInputStream(url), "UTF_8");
    boolean insideItem = false;

    // Returns the type of current event: START_TAG, END_TAG, etc..
    int eventType = xpp.getEventType();
    while (eventType != XmlPullParser.END_DOCUMENT)
    {
        if (eventType == XmlPullParser.START_TAG)
        {
            if (xpp.getName().equalsIgnoreCase("item"))
            {
                insideItem = true;
            }
            else if (xpp.getName().equalsIgnoreCase("title"))
            {
                if (insideItem)
                    headlines.add(xpp.nextText()); //extract the headline
            }
            else if (xpp.getName().equalsIgnoreCase("link"))
            {
                if (insideItem)
                    links.add(xpp.nextText()); //extract the link of article
            }
        }
        else if(eventType==XmlPullParser.END_TAG &&
xpp.getName().equalsIgnoreCase("item"))
        {
            insideItem=false;
        }
        eventType = xpp.next(); //move to next element
    }

}
catch (MalformedURLException e)
{
    e.printStackTrace();
}
catch (XmlPullParserException e)
```



```
{
    e.printStackTrace();
}
catch (IOException e)
{
    e.printStackTrace();
}
return null;
}
protected void onPostExecute(ArrayAdapter adapter)
{
    adapter = new ArrayAdapter(MainActivity.this, android.R.layout.simple_list_item_1,
headlines);
    setListAdapter(adapter);
}
}

@Override
protected void onItemClick(ListView l, View v, int position, long id)
{
    Uri uri = Uri.parse((links.get(position)).toString());
    Intent intent = new Intent(Intent.ACTION_VIEW, uri);
    startActivity(intent);
}

public InputStream getInputStream(URL url)
{
    try
    {
        return url.openConnection().getInputStream();
    }
    catch (IOException e)
    {
        return null;
    }
}
}
```

### **activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >
```

```
<ListView  
    android:id="@+id/listView"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content" />
```

</LinearLayout>

### OUTPUT:

C++ Program to find Prime Number or Not using While Loop

C++ program for Cosine Series

C++ program for Exponential Series

Android Application that implements Multi threading

C++ program for Sine Series

C Program for Selection Sort

C Program to check given String is Pangram or not

C Program to check whether two Strings are Anagram or not

C Program to Find Second Smallest Element in an Array

C Program to Find Smallest Element in an Array

### RESULT:

Thus the application that uses RSS feed has been created successfully.