## Activity\_Main.XML

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:orientation="vertical"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  <TextView
    android:id="@+id/textView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="30dp"
    android:gravity="center"
    android:text="Hello World!"
    android:textSize="25sp"
    android:textStyle="bold" />
  <Button
    android:id="@+id/button1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="20dp"
    android:gravity="center"
    android:text="Change font size"
    android:textSize="25sp" />
  <Button
    android:id="@+id/button2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="20dp"
    android:gravity="center"
    android:text="Change color"
    android:textSize="25sp" />
</LinearLayout>
```

#### MainActivity.java

```
package com.example.Application1;
import android.graphics.Color;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity
 int ch=1;
  float font=30;
  @Override
  protected void onCreate(Bundle savedInstanceState)
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    final TextView t= (TextView) findViewById(R.id.textView);
    Button b1= (Button) findViewById(R.id.button1);
    b1.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        t.setTextSize(font);
        font = font + 5;
        if (font == 50)
          font = 30;
      }
    });
    Button b2= (Button) findViewById(R.id.button2);
    b2.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
```

```
switch (ch) {
           case 1:
             t.setTextColor(Color.RED);
             break;
           case 2:
             t.setTextColor(Color.GREEN);
             break;
           case 3:
             t.setTextColor(Color.BLUE);
             break;
           case 4:
             t.setTextColor(Color.CYAN);
             break;
           case 5:
             t.setTextColor(Color.YELLOW);
             break;
           case 6:
             t.setTextColor(Color.MAGENTA);
             break;
        }
         ch++;
         if (ch == 7)
           ch = 1;
      }
    });
  }
}
Output:
```

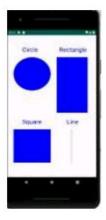


```
Activity_Main.XML
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
  android:layout_width="match_parent"
  android:layout_height="match_parent">
  <ImageView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/imageView" />
</RelativeLayout>
MainActivity.java
package com.example.Graphics;
import android.app.Activity;
import android.graphics.Bitmap;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.graphics.drawable.BitmapDrawable;
import android.os.Bundle;
import android.widget.ImageView;
public class MainActivity extends Activity
  @Override
  public void onCreate(Bundle savedInstanceState)
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main)
    //Creating a Bitmap
    Bitmap bg = Bitmap.createBitmap(720, 1280, Bitmap.Config.ARGB_8888);
    //Setting the Bitmap as background for the ImageView
```

ImageView i = (ImageView) findViewByld(R.id.imageView);

```
i.setBackgroundDrawable(new BitmapDrawable(bg));
    //Creating the Canvas Object
    Canvas canvas = new Canvas(bg);
    //Creating the Paint Object and set its color & TextSize
    Paint paint = new Paint();
    paint.setColor(Color.BLUE);
    paint.setTextSize(50);
    //To draw a Rectangle
    canvas.drawText("Rectangle", 420, 150, paint);
    canvas.drawRect(400, 200, 650, 700, paint);
    //To draw a Circle
    canvas.drawText("Circle", 120, 150, paint);
    canvas.drawCircle(200, 350, 150, paint);
    //To draw a Square
    canvas.drawText("Square", 120, 800, paint);
    canvas.drawRect(50, 850, 350, 1150, paint);
    //To draw a Line
    canvas.drawText("Line", 480, 800, paint);
    canvas.drawLine(520, 850, 520, 1150, paint);
  }
}
```

#### Output:



```
Activity_main.XML
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:orientation="vertical"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:layout_margin="20dp">
  <LinearLayout
    android:id="@+id/linearLayout1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="20dp">
<EditText
       android:id="@+id/editText1"
       android:layout_width="match_parent"
       android:layout height="wrap content"
       android:layout_weight="1"
       android:inputType="numberDecimal"
       android:textSize="20sp" />
    <EditText
```

```
android:layout_width="match_parent"
       android:layout_height="wrap_content"
       android:layout_weight="1"
       android:inputType="numberDecimal"
       android:textSize="20sp" />
</LinearLayout>
  <LinearLayout
    android:id="@+id/linearLayout2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="20dp">
    <Button
       android:id="@+id/Add"
       android:layout_width="match_parent"
       android:layout_height="wrap_content"
       android:layout_weight="1"
       android:text="+"
       android:textSize="30sp"/>
    <Button
```

```
android:id="@+id/Sub"
       android:layout_width="match_parent"
       android:layout_height="wrap_content"
       android:layout_weight="1"
       android:text="-"
       android:textSize="30sp"/>
    <Button
       android:id="@+id/Mul"
       android:layout_width="match_parent"
       android:layout_height="wrap_content"
       android:layout_weight="1"
       android:text="*"
       android:textSize="30sp"/>
    <Button
       android:id="@+id/Div"
android:layout_width="match_parent"
       android:layout_height="wrap_content"
       android:layout_weight="1"
       android:text="/"
       android:textSize="30sp"/>
```

```
</LinearLayout>
  <TextView
    android:id="@+id/textView"
    android:layout width="match parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="50dp"
    android:text="Answer is"
    android:textSize="30sp"
    android:gravity="center"/>
</LinearLayout>
MainActivity.java
package com.example.Calculator;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.text.TextUtils;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity implements OnClickListener
  //Defining the Views
  EditText Num1;
  EditText Num2;
  Button Add:
  Button Sub;
  Button Mul;
```

```
Button Div;
  TextView Result;
  @Override
  public void onCreate(Bundle savedInstanceState)
     super.onCreate(savedInstanceState);
     setContentView(R.layout.activity_main);
     //Referring the Views
     Num1 = (EditText) findViewByld(R.id.editText1);
     Num2 = (EditText) findViewByld(R.id.editText2);
     Add = (Button) findViewByld(R.id.Add);
     Sub = (Button) findViewByld(R.id.Sub);
     Mul = (Button) findViewById(R.id.Mul);
     Div = (Button) findViewByld(R.id.Div);
     Result = (TextView) findViewByld(R.id.textView);
     // set a listener
     Add.setOnClickListener(this);
     Sub.setOnClickListener(this);
     Mul.setOnClickListener(this);
     Div.setOnClickListener(this);
  }
  @Override
  public void onClick (View v)
     float num1 = 0;
     float num2 = 0;
     float result = 0;
     String oper = "";
     // check if the fields are empty
     if (TextUtils.isEmpty(Num1.getText().toString()) ||
TextUtils.isEmpty(Num2.getText().toString()))
          return:
     // read EditText and fill variables with numbers
     num1 = Float.parseFloat(Num1.getText().toString());
     num2 = Float.parseFloat(Num2.getText().toString());
     // defines the button that has been clicked and performs the corresponding operation
```

```
case R.id.Mul:
    oper = "*";
    result = num1 * num2;
    break;
case R.id.Div:
    oper = "/";
    result = num1 / num2;
    break;
default:
    break;
}
// form the output line
Result.setText(num1 + " " + oper + " " + num2 + " = " + result);
}
```

## Output:



```
Activity_Main.XML
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout_height="match_parent">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="50dp"
    android:layout_y="20dp"
    android:text="Student Details"
    android:textSize="30sp" />
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="20dp"
    android:layout_y="110dp"
    android:text="Enter Rollno:"
    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: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:"
```

```
<Button
 android:id="@+id/Delete"
 android:layout_width="150dp"
 android:layout_height="wrap_content"
 android:layout_x="200dp"
 android:layout_y="300dp"
 android:text="Delete"
 android:textSize="30dp" />
<Button
 android:id="@+id/Update"
 android:layout_width="150dp"
 android:layout_height="wrap_content"
 android:layout_x="25dp"
 android:layout_y="400dp"
 android:text="Update"
 android:textSize="30dp" />
<Button
 android:id="@+id/View"
 android:layout_width="150dp"
 android:layout_height="wrap_content"
 android:layout_x="200dp"
 android:layout_y="400dp"
 android:text="View"
 android:textSize="30dp" />
<Button
 android:id="@+id/ViewAll"
 android:layout_width="200dp"
 android:layout_height="wrap_content"
 android:layout_x="100dp"
 android:layout_y="500dp"
 android:text="View All"
```

```
android:textSize="30dp" />
</AbsoluteLayout>
ActivityMain.java
package com.example.exno5;
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, View All;
  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)findViewByld(R.id.Update);

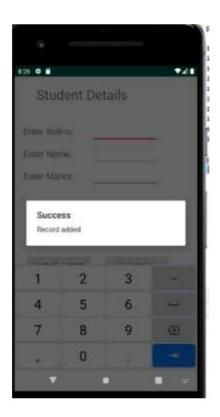
```
View=(Button)findViewById(R.id.View);
    ViewAll=(Button)findViewByld(R.id.ViewAll);
    Insert.setOnClickListener(this);
    Delete.setOnClickListener(this);
    Update.setOnClickListener(this);
    View.setOnClickListener(this);
    ViewAll.setOnClickListener(this);
    // Creating database and 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)
```

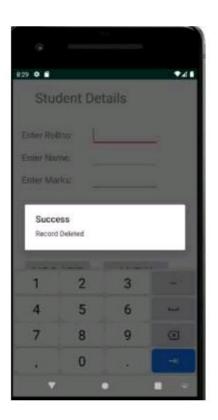
```
showMessage("Success", "Record Modified");
  }
  else {
    showMessage("Error", "Invalid Rollno");
  }
  clearText();
// Display a record from the Student table
if(view==View)
  // Checking for empty roll number
  if(Rollno.getText().toString().trim().length()==0)
  {
    showMessage("Error", "Please 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);
```

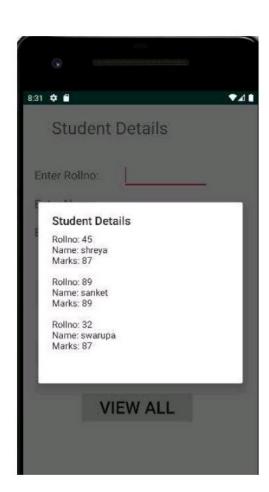
```
if(c.getCount()==0)
    {
      showMessage("Error", "No records found");
      return;
    }
    StringBuffer buffer=new StringBuffer();
    while(c.moveToNext())
      buffer.append("Rollno: "+c.getString(0)+"\n");
      buffer.append("Name: "+c.getString(1)+"\n");
      buffer.append("Marks: "+c.getString(2)+"\n\n");
    }
    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();
}
```

Output:

Scanned by CamScanner







```
Activity_Main.XML
<?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">
<TextView
       android:layout_width="wrap_content"
       android:layout_height="wrap_content"
       android:text="Press The Back Button of Your Phone."
       android:textStyle="bold"
       android:textSize="30dp"
       android:gravity="center_horizontal"
       android:layout_marginTop="180dp"
       />
</RelativeLayout>
ActivityMain.java
package org.alertdialog;
import android.content.DialogInterface;
import android.support.v7.app.AlertDialog;
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);
```

}

```
// Declare the onBackPressed method
// when the back button is pressed
// this method will call
@Override
public void onBackPressed()
        // Create the object of
        // AlertDialog Builder class
        AlertDialog.Builder builder
                = new AlertDialog.Builder(MainActivity.this);
        // Set the message show for the Alert time
        builder.setMessage("Do you want to exit ?");
        // Set Alert Title
        builder.setTitle("Alert !");
        // Set Cancelable false
        // for when the user clicks on the outside
        // the Dialog Box then it will remain show
        builder.setCancelable(false);
        // Set the positive button with yes name
        // OnClickListener method is use of
        // DialogInterface interface.
        builder
                .setPositiveButton(
                        "Yes",
                        new DialogInterface
                                .OnClickListener() {
                                        @Override
                                        public void onClick(DialogInterface dialog,
                                                                                 int which)
                                        {
```

```
// When the user click yes button
                                                         // then app will close
                                                         finish();
                                                 }
                                         });
                // Set the Negative button with No name
                // OnClickListener method is use
                // of DialogInterface interface.
                builder
                        .setNegativeButton(
                                "No",
                                new DialogInterface
                                         .OnClickListener() {
                                                 @Override
                                                 public void onClick(DialogInterface dialog,
                                                                                          int which)
                                                 {
                                                         // If user click no
                                                         // then dialog box is canceled.
                                                         dialog.cancel();
                                                 }
                                         });
                // Create the Alert dialog
                AlertDialog alertDialog = builder.create();
                // Show the Alert Dialog box
                alertDialog.show();
        }
}
Output:
```





# activity.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:paddingLeft="10dp"
  android:paddingRight="10dp">
  <Button
    android:id="@+id/btnOn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Turn On" android:layout_marginLeft="100dp"
android:layout_marginTop="200dp" />
  <Button
    android:id="@+id/btnOFF"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBottom="@+id/btnOn"
    android:layout_toRightOf="@+id/btnOn"
    android:text="Turn OFF" />
</RelativeLayout>
```

## Activity.java

```
package.com.example.osl.bluetoothuselessapp;
import android.bluetooth.BluetoothAdapter;
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.Toast;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    Button btntOn = (Button)findViewByld(R.id.btnOn);
    Button btntOff = (Button)findViewByld(R.id.btnOFF);
    final BluetoothAdapter bAdapter = BluetoothAdapter.getDefaultAdapter();
    btntOn.setOnClickListener(new View.OnClickListener() {
       @Override
```

```
public void onClick(View v) {
         if(bAdapter == null)
         {
           Toast.makeText(getApplicationContext(),"Bluetooth Not
Supported", Toast.LENGTH_SHORT).show();
         }
         else{
            if(!bAdapter.isEnabled()){
              startActivityForResult(new
Intent(BluetoothAdapter.ACTION_REQUEST_ENABLE),1);
              To ast.make Text(get Application Context (), "Blue to oth Turned" \\
ON", Toast.LENGTH_SHORT).show();
           }
         }
      }
    });
    btntOff.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         bAdapter.disable();
         Toast.makeText(getApplicationContext(),"Bluetooth Turned OFF",
Toast.LENGTH_SHORT).show();
```

```
}
    });
  }
}
manifest<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  package="com.example.osl.bluetoothuselessapp">
  <uses-permission android:name="android.permission.BLUETOOTH"/>
  <uses-permission android:name="android.permission.BLUETOOTH_ADMIN"/>
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launcher"
    android:label="@string/app_name"
    android:roundlcon="@mipmap/ic_launcher_round"
    android:supportsRtl="true"
    android:theme="@style/AppTheme">
     <activity android:name=".MainActivity">
       <intent-filter>
         <action android:name="android.intent.action.MAIN" />
         <category android:name="android.intent.category.LAUNCHER" />
```

</ntent-filter>
</activity>
</application>
</manifest>

# Output:



```
| Input mapsy as no | chellalists | chellali
```