

Android Lab

Ex:1

java

```
package com.example.ex1;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.graphics.Color;

public class MainActivity extends AppCompatActivity {

    TextView t;
    Button fontBtn, colorBtn;
    float size = 30; int colorIndex = 0;
    int[] colors = {Color.RED, Color.GREEN, Color.BLUE, Color.CYAN, Color.YELLOW, Color.MAGENTA};

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        t = findViewById(R.id.text);
        fontBtn = findViewById(R.id.fontBtn);
        colorBtn = findViewById(R.id.colorBtn);

        fontBtn.setOnClickListener(v -> {
            t.setTextSize(size);
            size = (size >= 50) ? 30 : size + 5;
        });

        colorBtn.setOnClickListener(v -> {
```

```

        t.setTextColor(colors[colorIndex]);

        colorIndex = (colorIndex + 1) % colors.length;

    });
}
}

```

Xml

```

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

    <TextView android:id="@+id/text"
        android:text="WELCOME" android:textSize="24sp"
        android:layout_width="wrap_content" android:layout_height="wrap_content"/>

    <Button android:id="@+id/fontBtn"
        android:text="Change Font" android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

    <Button android:id="@+id/colorBtn"
        android:text="Change Color" android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

</LinearLayout>

```

EX:2

Java:

```

package com.example.ex2;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.graphics.Color;

import android.view.View;

import android.widget.*;

```

```

public class MainActivity extends AppCompatActivity {

    Button redBtn, greenBtn, blueBtn;

    ListView listView;

    Spinner spinner;

    String[] colors = {"Red", "Green", "Blue"};

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        redBtn = findViewById(R.id.redBtn);
        greenBtn = findViewById(R.id.greenBtn);
        blueBtn = findViewById(R.id.blueBtn);
        listView = findViewById(R.id.listView);
        spinner = findViewById(R.id.spinner);

        ArrayAdapter<String> adapter = new ArrayAdapter<>(this, android.R.layout.simple_list_item_1,
colors);

        listView.setAdapter(adapter);
        spinner.setAdapter(adapter);

        redBtn.setOnClickListener(v -> redBtn.setTextColor(Color.RED));
        greenBtn.setOnClickListener(v -> greenBtn.setTextColor(Color.GREEN));
        blueBtn.setOnClickListener(v -> blueBtn.setTextColor(Color.BLUE));

        listView.setOnItemClickListener((parent, view, position, id) ->

            Toast.makeText(this, "List: " + colors[position], Toast.LENGTH_SHORT).show());

        spinner.setOnItemClickListener(new AdapterView.OnItemClickListener() {

            public void onItemClick(AdapterView<?> parent, View view, int pos, long id) {

```

```

        Toast.makeText(MainActivity.this, "Spinner: " + colors[pos], Toast.LENGTH_SHORT).show();
    }

    public void onNothingSelected(AdapterView<?> parent) {}

    });
}
}

```

Xml:

```

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

    <Button android:id="@+id/redBtn" android:text="RED"
        android:layout_width="wrap_content" android:layout_height="wrap_content"/>
    <Button android:id="@+id/greenBtn" android:text="GREEN"
        android:layout_width="wrap_content" android:layout_height="wrap_content"/>
    <Button android:id="@+id/blueBtn" android:text="BLUE"
        android:layout_width="wrap_content" android:layout_height="wrap_content"/>
    <ListView android:id="@+id/listView"
        android:layout_width="match_parent" android:layout_height="wrap_content"/>
    <Spinner android:id="@+id/spinner"
        android:layout_width="match_parent" android:layout_height="wrap_content"/>
</LinearLayout>

```

EX:3

Java:

```

package com.example.ex3;

import androidx.appcompat.app.AppCompatActivity;

import android.graphics.*;
import android.graphics.drawable.BitmapDrawable;
import android.os.Bundle;
import android.widget.ImageView;

```

```

public class MainActivity extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);


        Bitmap b = Bitmap.createBitmap(720, 1280, Bitmap.Config.ARGB_8888);

        ImageView img = findViewById(R.id.imageView);

        img.setBackground(new BitmapDrawable(getResources(), b));


        Canvas canvas = new Canvas(b);

        Paint paint = new Paint();

        paint.setColor(Color.BLUE);

        paint.setTextSize(50);


        canvas.drawText("Rectangle", 420, 150, paint);

        canvas.drawRect(400, 200, 650, 700, paint);

        canvas.drawText("Circle", 120, 150, paint);

        canvas.drawCircle(200, 350, 150, paint);

        canvas.drawText("Square", 120, 800, paint);

        canvas.drawRect(50, 850, 350, 1150, paint);

        canvas.drawText("Line", 480, 800, paint);

        canvas.drawLine(520, 850, 520, 1150, paint);

    }
}

Xml:

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

    android:layout_width="match_parent" android:layout_height="match_parent">


    <ImageView android:id="@+id/imageView"

        android:layout_width="match_parent" android:layout_height="match_parent"/>

```

```
</RelativeLayout>
```

EX:4

Java:

```
package com.example.ex4;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.widget.Button;
```

```
import android.widget.ImageView;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    ImageView img;
```

```
    Button load1, load2;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        img = findViewById(R.id.img);
```

```
        load1 = findViewById(R.id.load1);
```

```
        load2 = findViewById(R.id.load2);
```

```
        load1.setOnClickListener(v -> img.setImageResource(R.drawable.halwa));
```

```
        load2.setOnClickListener(v -> img.setImageResource(R.drawable.parotta));
```

```
    }
```

```
}
```

Xml:

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    android:orientation="vertical" android:gravity="center"
```

```
    android:layout_width="match_parent" android:layout_height="match_parent">
```

```

<ImageView android:id="@+id/img"
    android:layout_width="300dp" android:layout_height="300dp"/>
<Button android:id="@+id/load1" android:text="Load Image 1"
    android:layout_width="wrap_content" android:layout_height="wrap_content"/>
<Button android:id="@+id/load2" android:text="Load Image 2"
    android:layout_width="wrap_content" android:layout_height="wrap_content"/>
</LinearLayout>

```

Ex:5

Java:

```

package com.example.ex5;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.*;

public class MainActivity extends AppCompatActivity {

    SQLiteDatabase db;

    EditText e1, e2, e3;

    Button addBtn, showBtn, closeBtn;

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

        e1 = findViewById(R.id.e1);
        e2 = findViewById(R.id.e2);
        e3 = findViewById(R.id.e3);

        addBtn = findViewById(R.id.addBtn);
        showBtn = findViewById(R.id.showBtn);
    }
}

```

```

closeBtn = findViewById(R.id.closeBtn);

db = openOrCreateDatabase("StudentDB", MODE_PRIVATE, null);

db.execSQL("CREATE TABLE IF NOT EXISTS student(fname VARCHAR, lname VARCHAR, email
VARCHAR);");

addBtn.setOnClickListener(v -> {

    db.execSQL("INSERT INTO student VALUES('" + e1.getText() + "','" + e2.getText() + "','" +
e3.getText() + "');");

    Toast.makeText(this, "Saved!", Toast.LENGTH_SHORT).show();

});

showBtn.setOnClickListener(v -> startActivity(new Intent(this, MainActivity2.class)));
closeBtn.setOnClickListener(v -> System.exit(0));
}
}

```

Java2:

```

package com.example.ex5;

import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity2 extends AppCompatActivity {

    EditText e4, e5, e6;

    Cursor c;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

```



```
setContentView(R.layout.activity_main2);
```

```
e4 = findViewById(R.id.e4);
```

```
e5 = findViewById(R.id.e5);
```

```
e6 = findViewById(R.id.e6);
```

```
Button next = findViewById(R.id.nextBtn), prev = findViewById(R.id.prevBtn);
```

```
SQLiteDatabase db = openOrCreateDatabase("StudentDB", MODE_PRIVATE, null);
```

```
c = db.rawQuery("SELECT * FROM student", null);
```

```
if (c.moveToFirst()) showData();
```

```
next.setOnClickListener(v -> {
```

```
    if (c.moveToNext()) showData();
```

```
    else Toast.makeText(this, "Last Record", Toast.LENGTH_SHORT).show();
```

```
});
```

```
prev.setOnClickListener(v -> {
```

```
    if (c.moveToPrevious()) showData();
```

```
    else Toast.makeText(this, "First Record", Toast.LENGTH_SHORT).show();
```

```
});
```

```
}
```

```
void showData() {
```

```
    e4.setText(c.getString(0));
```

```
    e5.setText(c.getString(1));
```

```
    e6.setText(c.getString(2));
```

```
}
```

```
}
```

Xml1:

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    android:orientation="vertical" android:padding="20dp"
```

```
android:layout_width="match_parent" android:layout_height="match_parent">
```

```
<EditText android:id="@+id/e1" android:hint="First Name" android:layout_width="match_parent"
android:layout_height="wrap_content"/>
```

```
<EditText android:id="@+id/e2" android:hint="Last Name" android:layout_width="match_parent"
android:layout_height="wrap_content"/>
```

```
<EditText android:id="@+id/e3" android:hint="Email" android:layout_width="match_parent"
android:layout_height="wrap_content"/>
```

```
<Button android:id="@+id/addBtn" android:text="Add" android:layout_width="match_parent"
android:layout_height="wrap_content"/>
```

```
<Button android:id="@+id/showBtn" android:text="Show" android:layout_width="match_parent"
android:layout_height="wrap_content"/>
```

```
<Button android:id="@+id/closeBtn" android:text="Close" android:layout_width="match_parent"
android:layout_height="wrap_content"/>
```

```
</LinearLayout>
```

Xml:2

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    android:orientation="vertical" android:padding="20dp"
```

```
    android:layout_width="match_parent" android:layout_height="match_parent">
```

```
<EditText android:id="@+id/e4" android:hint="First Name" android:layout_width="match_parent"
android:layout_height="wrap_content"/>
```

```
<EditText android:id="@+id/e5" android:hint="Last Name" android:layout_width="match_parent"
android:layout_height="wrap_content"/>
```

```
<EditText android:id="@+id/e6" android:hint="Email" android:layout_width="match_parent"
android:layout_height="wrap_content"/>
```

```
<Button android:id="@+id/prevBtn" android:text="Previous"
android:layout_width="wrap_content" android:layout_height="wrap_content"/>
```

```
<Button android:id="@+id/nextBtn" android:text="Next" android:layout_width="wrap_content"
android:layout_height="wrap_content"/>
```

```
</LinearLayout>
```

EX:6

Java:

```

package com.example.ex6;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.os.Environment;

import android.widget.*;

import java.io.*;

public class MainActivity extends AppCompatActivity {

    EditText editText;

    TextView textView;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        editText = findViewById(R.id.editText);

        textView = findViewById(R.id.textView);

        findViewById(R.id.writeBtn).setOnClickListener(v -> writeFile());

        findViewById(R.id.readBtn).setOnClickListener(v -> readFile());

    }

    void writeFile() {

        try {

            File f = new File(getExternalFilesDir(null), "sample.txt");

            FileOutputStream fos = new FileOutputStream(f);

            fos.write(editText.getText().toString().getBytes());

            fos.close();

            Toast.makeText(this, "Written", Toast.LENGTH_SHORT).show();

        } catch (Exception e) { e.printStackTrace(); }

    }

```

```

void readFile() {
    try {
        File f = new File(getExternalFilesDir(null), "sample.txt");
        BufferedReader br = new BufferedReader(new FileReader(f));
        textView.setText(br.readLine());
        br.close();
    } catch (Exception e) { e.printStackTrace(); }
}
}

```

Xml:

```

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:padding="20dp"
    android:layout_width="match_parent" android:layout_height="match_parent">

    <EditText android:id="@+id/editText" android:hint="Enter text"
        android:layout_width="match_parent" android:layout_height="wrap_content"/>
    <Button android:id="@+id/writeBtn" android:text="Write to File"
        android:layout_width="match_parent" android:layout_height="wrap_content"/>
    <Button android:id="@+id/readBtn" android:text="Read from File"
        android:layout_width="match_parent" android:layout_height="wrap_content"/>
    <TextView android:id="@+id/textView" android:text="Content shows here"
        android:layout_width="match_parent" android:layout_height="wrap_content"/>
</LinearLayout>

```

Ex:7

Java:

```

package com.example.ex7;

import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.NotificationCompat;
import androidx.core.app.NotificationManagerCompat;
import android.app.NotificationChannel;

```

```
import android.app.NotificationManager;

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 {

    private static final String CHANNEL_ID = "channel_id";

    EditText editText;

    Button notifyBtn;


    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        editText = findViewById(R.id.editText);

        notifyBtn = findViewById(R.id.notifyBtn);


        createNotificationChannel();


        notifyBtn.setOnClickListener(v -> {

            String msg = editText.getText().toString();

            NotificationCompat.Builder builder = new NotificationCompat.Builder(this, CHANNEL_ID)

                .setSmallIcon(R.mipmap.ic_launcher)

                .setContentTitle("Notification")

                .setContentText(msg)

                .setPriority(NotificationCompat.PRIORITY_DEFAULT);

            NotificationManagerCompat.from(this).notify(1, builder.build());

        });

    }

}
```

```

void createNotificationChannel() {
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
        NotificationChannel channel = new NotificationChannel(CHANNEL_ID, "Channel",
NotificationManager.IMPORTANCE_DEFAULT);

        NotificationManager manager = getSystemService(NotificationManager.class);
        manager.createNotificationChannel(channel);
    }
}
}

```

Xml:

```

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

    <EditText android:id="@+id/editText" android:hint="Enter Message"
        android:layout_width="match_parent" android:layout_height="wrap_content"/>
    <Button android:id="@+id/notifyBtn" android:text="Send Notification"
        android:layout_width="wrap_content" android:layout_height="wrap_content"/>
</LinearLayout>

```

Manifesto:

```

<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.ex7">

    <uses-permission android:name="android.permission.POST_NOTIFICATIONS"/>

    <application
        android:allowBackup="true"
        android:theme="@style/Theme.Ex7">
        <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>

</activity>

</application>

</manifest>
```

EX:8

Java:

```
package com.example.ex8;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

    EditText lat, lon;

    Button locateBtn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        lat = findViewById(R.id.lat);

        lon = findViewById(R.id.lon);

        locateBtn = findViewById(R.id.locateBtn);

        locateBtn.setOnClickListener(v -> {

            Intent i = new Intent(this, MainActivity2.class);

            i.putExtra("lat", lat.getText().toString());

            i.putExtra("lon", lon.getText().toString());
```

```

        startActivity(i);
    });
}
}

```

Java2:

```

package com.example.ex8;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.webkit.WebView;

public class MainActivity2 extends AppCompatActivity {

    WebView webView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        webView = findViewById(R.id.webView);

        String lat = getIntent().getStringExtra("lat");
        String lon = getIntent().getStringExtra("lon");
        webView.loadUrl("https://www.google.com/maps?q=" + lat + "," + lon);
    }
}

```

Xml:

```

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

    <EditText android:id="@+id/lat" android:hint="Enter Latitude"
        android:layout_width="match_parent" android:layout_height="wrap_content"/>
    <EditText android:id="@+id/lon" android:hint="Enter Longitude"
        android:layout_width="match_parent" android:layout_height="wrap_content"/>

```



```
<Button android:id="@+id/locateBtn" android:text="Locate"
        android:layout_width="wrap_content" android:layout_height="wrap_content"/>
</LinearLayout>
```

Xml:2

```
<WebView xmlns:android="http://schemas.android.com/apk/res/android"
        android:id="@+id/webView"
        android:layout_width="match_parent" android:layout_height="match_parent"/>
```

Manifest:

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.ex8">
    <uses-permission android:name="android.permission.INTERNET"/>

    <application android:allowBackup="true" android:theme="@style/Theme.Ex8">
        <activity android:name=".MainActivity2" android:exported="true"/>
        <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>
        </activity>
    </application>
</manifest>
```

EX:9

Java:

```
package com.example.ex9;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
```

```

public class MainActivity extends AppCompatActivity {

    EditText to, subject, message;

    Button sendBtn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        to = findViewById(R.id.to);

        subject = findViewById(R.id.subject);

        message = findViewById(R.id.message);

        sendBtn = findViewById(R.id.sendBtn);

        sendBtn.setOnClickListener(v -> {

            Intent i = new Intent(Intent.ACTION_SEND);

            i.setType("message/rfc822");

            i.putExtra(Intent.EXTRA_EMAIL, new String[]{to.getText().toString()});

            i.putExtra(Intent.EXTRA_SUBJECT, subject.getText().toString());

            i.putExtra(Intent.EXTRA_TEXT, message.getText().toString());

            startActivity(Intent.createChooser(i, "Choose Email App"));

        });

    }
}

```

Xml:

```

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:padding="20dp"
    android:layout_width="match_parent" android:layout_height="match_parent">

    <EditText android:id="@+id/to" android:hint="To Email"
        android:layout_width="match_parent" android:layout_height="wrap_content"/>

```

```

<EditText android:id="@+id/subject" android:hint="Subject"
    android:layout_width="match_parent" android:layout_height="wrap_content"/>
<EditText android:id="@+id/message" android:hint="Message"
    android:layout_width="match_parent" android:layout_height="wrap_content"/>
<Button android:id="@+id/sendBtn" android:text="Send Email"
    android:layout_width="match_parent" android:layout_height="wrap_content"/>
</LinearLayout>

```

EX:10

Java:

```

package com.example.ex10;

import androidx.appcompat.app.AppCompatActivity;
import android.app.AlertDialog;
import android.content.res.Configuration;
import android.os.Bundle;
import android.widget.Button;
import java.util.Locale;

public class MainActivity extends AppCompatActivity {
    Button langBtn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        langBtn = findViewById(R.id.langBtn);

        langBtn.setOnClickListener(v -> {
            String[] langs = {"English", "Tamil"};
            new AlertDialog.Builder(this)
                .setTitle("Choose Language")
                .setItems(langs, (d, i) -> {

```

```

        if (i == 0) setLocale("en");
        else setLocale("ta");
    }).show();
});
}

```

```

void setLocale(String lang) {
    Locale locale = new Locale(lang);
    Locale.setDefault(locale);
    Configuration config = new Configuration();
    config.locale = locale;
    getResources().updateConfiguration(config, getResources().getDisplayMetrics());
    recreate();
}
}

```

Xml:

```

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

    <Button android:id="@+id/langBtn" android:text="Change Language"
        android:layout_width="wrap_content" android:layout_height="wrap_content"/>

</LinearLayout>

```

EX:11

Java:

```

package com.example.ex11;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.widget.Button;

```

```
import android.widget.Toast;

import com.google.firebase.storage.FirebaseStorage;
import com.google.firebase.storage.StorageReference;

public class MainActivity extends AppCompatActivity {

    Uri imageUri;

    FirebaseStorage storage = FirebaseStorage.getInstance();

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        findViewById(R.id.selectBtn).setOnClickListener(v -> selectImage());
        findViewById(R.id.uploadBtn).setOnClickListener(v -> uploadImage());
    }

    void selectImage() {

        Intent intent = new Intent(Intent.ACTION_PICK);

        intent.setType("image/*");

        startActivityForResult(intent, 1);
    }

    void uploadImage() {

        if (imageUri != null) {

            StorageReference ref = storage.getReference().child("uploads/" + System.currentTimeMillis());

            ref.putFile(imageUri).addOnSuccessListener(t -> Toast.makeText(this, "Uploaded",
Toast.LENGTH_SHORT).show());

        }

    }
}
```

@Override

```
protected void onActivityResult(int r, int c, Intent d) {  
    super.onActivityResult(r, c, d);  
    if (r == 1 && c == RESULT_OK) imageUrl = d.getData();  
}  
}
```

Xml:

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:orientation="vertical" android:gravity="center"  
    android:layout_width="match_parent" android:layout_height="match_parent">  
  
    <Button android:id="@+id/selectBtn" android:text="Select Image"  
        android:layout_width="wrap_content" android:layout_height="wrap_content"/>  
    <Button android:id="@+id/uploadBtn" android:text="Upload Image"  
        android:layout_width="wrap_content" android:layout_height="wrap_content"/>  
</LinearLayout>
```