

QUE 1. Write a program to capture an image and display it using image view.

ActivityMain.xml

```
<?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"
    android:gravity="center"
    tools:context=".MainActivity">
    <ImageView android:id="@+id/img1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        tools:srcCompat="@tools:sample/avatars" />
    <Button android:id="@+id/bt1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Start Camera"/>
</LinearLayout>
```

MainActivity.java

```
package com.example.camera;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.graphics.Bitmap;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    private static final int REQUEST_CODE=21;
    Button bt1;
    ImageView img1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        bt1=findViewById(R.id.bt1);
        img1=findViewById(R.id.img1);
        bt1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent cameraIntent=new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
                startActivityForResult(cameraIntent,REQUEST_CODE);}}});}
```

```

public void onActivityResult(int requestCode, int resultCode, Intent data) {
    if(requestCode == REQUEST_CODE && resultCode ==RESULT_OK){
        Bitmap photo=(Bitmap) data.getExtras().get("data");
        img1.setImageBitmap(photo);
    }else{
        Toast.makeText(this,"Cancelled",Toast.LENGTH_SHORT).show();
    }
    super.onActivityResult(requestCode, resultCode, data);}
}

```

Manifest.java

```

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

```

QUE2. Write a program to display the following output.

ActivityMain.xml

```

<?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:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <Button
        android:id="@+id/btn_cap"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Capture" />
    <Button
        android:id="@+id/btn_show"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Show" />
    <VideoView
        android:id="@+id/videoView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />
</LinearLayout>

```

MainActivity.java

```

package com.example.videorecord;
import android.app.Activity;
import android.content.Intent;
import android.net.Uri;

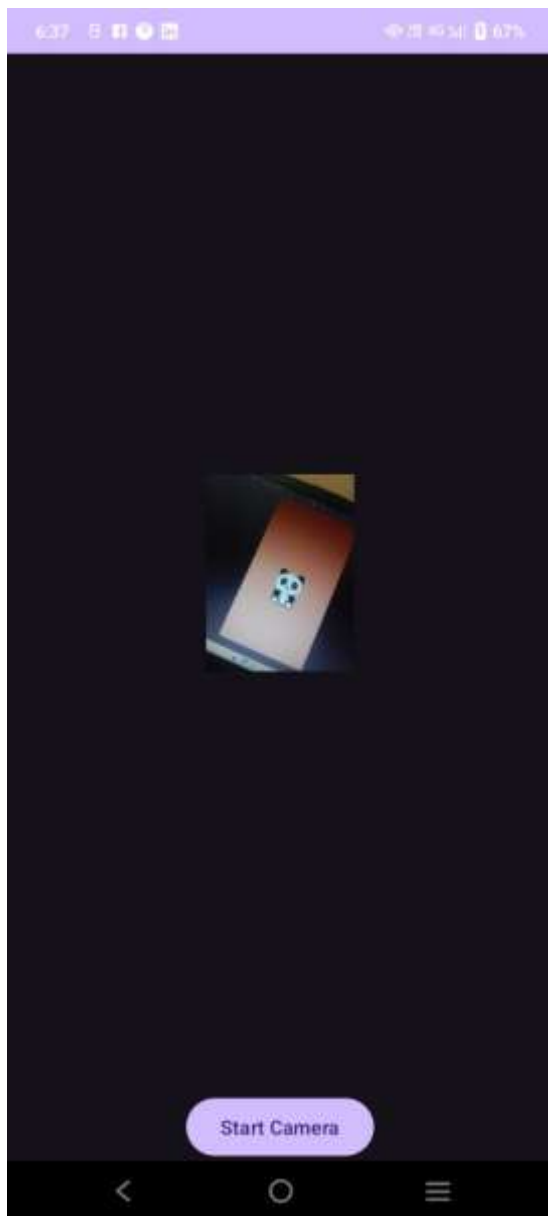
```

```

import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.VideoView;
public class MainActivity extends Activity implements OnClickListener {
    public static int VIDEO_CAPTURED = 1;
    Button captureVideoButton;
    Button playVideoButton;
    VideoView videoView;
    Uri videoFileUri;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        captureVideoButton = (Button) this.findViewById(R.id.btn_cap);
        playVideoButton = (Button) this.findViewById(R.id.btn_show);
        captureVideoButton.setOnClickListener(this);
        playVideoButton.setOnClickListener(this);
        playVideoButton.setEnabled(false);
        videoView = (VideoView) this.findViewById(R.id.videoView);
    }
    public void onClick(View v) {
        if (v == captureVideoButton) {
            Intent captureVideoIntent = new
Intent(android.provider.MediaStore.ACTION_VIDEO_CAPTURE);
            startActivityForResult(captureVideoIntent, VIDEO_CAPTURED);
        } else if (v == playVideoButton) {
            videoView.setVideoURI(videoFileUri);
            videoView.start();
        }
    }
    protected void onActivityResult(int requestCode, int resultCode, Intent data) {
        if (resultCode == RESULT_OK && requestCode == VIDEO_CAPTURED) {
            videoFileUri = data.getData();
            playVideoButton.setEnabled(true);
        }
    }
}

```

### QUE 1 : Output



### Que 2 Output

