

Experiment 23

1.

ActivityMain.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"
    android:gravity="center"
    tools:context=".MainActivity">
    <Button
        android:id="@+id/camera_button"
        android:layout_width="100dp"
        android:layout_height="50dp"
        android:layout_marginLeft="125dp"
        android:text="Camera" />
    <ImageView
        android:layout_marginTop="70dp"
        android:layout_width="350dp"
        android:layout_height="450dp"
        android:id="@+id/click_image"
        android:layout_marginBottom="10dp"/>
</RelativeLayout>
```

MainActivity.java

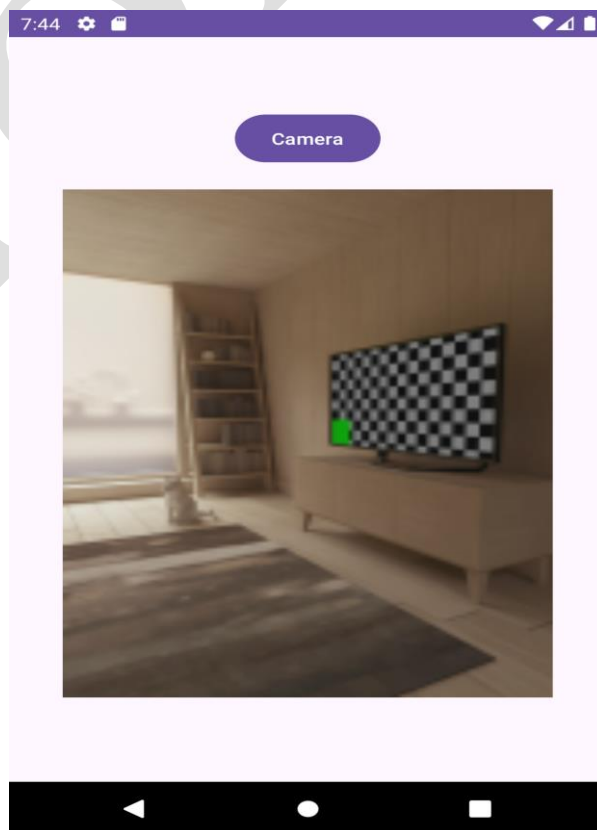
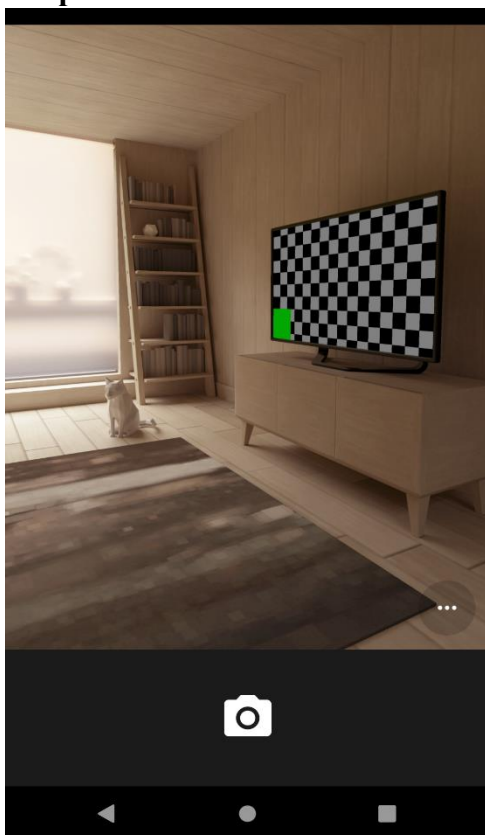
```
package com.example.exp23_1;
import android.content.Intent;
import android.graphics.Bitmap;
import android.provider.MediaStore;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
    private static final int pic_id = 123;
    Button camera_open_id;
    ImageView click_image_id;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

```

camera_open_id = (Button)findViewById(R.id.camera_button);
click_image_id = (ImageView)findViewById(R.id.click_image);
camera_open_id.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v)
    {
        Intent camera_intent = new
            Intent(MediaStore.ACTION_IMAGE_CAPTURE);
        startActivityForResult(camera_intent, pic_id);
    }
});
}
protected void onActivityResult(int requestCode, int resultCode, Intent data)
{
    super.onActivityResult(requestCode, resultCode, data);
    if (requestCode == pic_id) {
        Bitmap photo = (Bitmap) data.getExtras().get("data");
        click_image_id.setImageBitmap(photo);
    }
}
}

```

Output:



2.

ActivityMain.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">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:gravity="center"
        android:orientation="vertical">
        <Button
            android:id="@+id/button"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="15dp"
            android:text="Record Video"
            android:onClick="recordVideo"/>
        <VideoView
            android:id="@+id/videoView"
            android:layout_marginTop="15dp"
            android:layout_width="match_parent"
            android:layout_height="match_parent" />
    </LinearLayout>
</RelativeLayout>
```

MainActivity.java

```
package com.example.exp23_2;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.View;
import android.widget.MediaController;
import android.widget.VideoView;
public class MainActivity extends AppCompatActivity {
    VideoView videoView;
    int REQUEST_CODE_VIDEO_CAPTURE = 2607;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

```

super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
videoView = findViewById(R.id.videoView);
MediaController mediaController = new MediaController(this);
mediaController.setAnchorView(videoView);
videoView.setMediaController(mediaController);
}
public void recordVideo(View view) {
    Intent intent = new Intent(MediaStore.ACTION_VIDEO_CAPTURE);
    if (intent.resolveActivity(getPackageManager()) != null) {
        startActivityForResult(intent, REQUEST_CODE_VIDEO_CAPTURE);
    }
}
@Override
protected void onActivityResult(int requestCode, int resultCode, @Nullable
Intent data) {
    if (requestCode == REQUEST_CODE_VIDEO_CAPTURE && resultCode ==
RESULT_OK)
    {
        Uri videoUri = data.getData();
        videoView.setVideoURI(videoUri);
        videoView.start();
    }
    super.onActivityResult(requestCode, resultCode, data);
}
}

```

Output:

