

Experiment Number 23 (Exercise 1):

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

Code for MainActivity.java location java

```
import androidx.annotation.Nullable;
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.ImageView;
public class MainActivity extends AppCompatActivity {
    ImageView iv;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        iv = (ImageView) findViewById(R.id.cameraImg);
    }
    public void clickPhoto(View v) {
        Intent cameraIntent = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
        startActivityForResult(cameraIntent,0);
    }
    @Override
    protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        Bitmap bm = (Bitmap)data.getExtras().get("data");
        iv.setImageBitmap(bm);
    }
}
```

code for activity_main.xml location layout folder

```
<?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"
    tools:context=".MainActivity"
    android:orientation="vertical">
    <ImageView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/cameraImg"
        android:minHeight="350sp"
        android:layout_marginTop="200dp" />
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/sBtn"
        android:text="Take Picture"
        android:onClick="clickPhoto"
        android:layout_marginTop="10dp" />
</LinearLayout>
```

Output:

