Practical 23

1. Write a Program to capture an Image using camera.

Xml Code :

```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"
    tools:context=".MainActivity"
    android:orientation="vertical">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="@color/black"
        android:layout_gravity="center"
        android:textSize="20dp"
        android:layout_marginTop="25dp"
        android:text="Program to capture an image using camera"/>
    <ImageView
        android:id="@+id/im1"
        android:layout_marginTop="20dp"
        android:layout_width="410dp"
        android:layout_height="410dp"/>
    <Button
        android:id="@+id/b1"
        android:layout_width="wrap_content"
        android:layout_height="90dp"
        android:text="Capture and Set Image"
        android:textSize="25dp"
        android:layout_gravity="center"
        android:layout_marginTop="20dp"
        android:backgroundTint="@color/black"
        />
</LinearLayout>
```

Java Code :

```java
package com.example.exp23;
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;
public class MainActivity extends AppCompatActivity {
    int CameraPhotoRequestCode;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button b1 = (Button) findViewById(R.id.b1);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i1 = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
                startActivityForResult(i1,CameraPhotoRequestCode);
            }
        });
    }
    protected void onActivityResult(int requestcode, int resultCode, Intent data) {
        ImageView im1 = (ImageView) findViewById(R.id.im1);
        super.onActivityResult(requestcode, resultCode, data);
        if (requestcode == CameraPhotoRequestCode){
            Bitmap photo = (Bitmap) data.getExtras().get("data");
            im1.setImageBitmap(photo);
        }
    }
}
```

Output :