

Practical No 23

X.1

- **Program**
- **XML File:**

```
<?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:id="@+id/activity_main"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
android:background="#FFF9C4">

<ImageView
android:layout_width="fill_parent"
android:layout_height="300dp"
android:layout_centerHorizontal="true"
android:id="@+id/imageView" />

<Button
android:text=" capture "
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_gravity="center"
android:id="@+id/button" />

</LinearLayout>
```

- **JAVA File:**

```
package com.example.prac23x1;

import android.Manifest;

import android.content.Intent;

import android.content.pm.PackageManager;

import android.graphics.Bitmap;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.ImageView;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.ActivityCompat;

public class MainActivity extends AppCompatActivity {

    Button button ;

    ImageView imageView ;

    Intent intent ;

    public static final int RequestPermissionCode = 1 ;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        button = (Button)findViewById(R.id.button);

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

        EnableRuntimePermission();

        button.setOnClickListener(new View.OnClickListener() {

            @Override
```

```

public void onClick(View view) {
    intent = new
Intent(android.provider.MediaStore.ACTION_IMAGE_CAPTURE);
    startActivityForResult(intent, 7);
}
});
}

protected void onActivityResult(int requestCode, int resultCode, Intent
data) {
    super.onActivityResult(requestCode, resultCode, data);
    if (requestCode == 7 && resultCode == RESULT_OK) {
        Bitmap bitmap = (Bitmap) data.getExtras().get("data");
        imageView.setImageBitmap(bitmap);
    }
}

public void EnableRuntimePermission(){
    if
(ActivityCompat.shouldShowRequestPermissionRationale(MainActivity.thi
s,
Manifest.permission.CAMERA))
    {
        Toast.makeText(MainActivity.this,"CAMERA permission allows us
to Access CAMERA app", Toast.LENGTH_LONG).show();
    } else {
        ActivityCompat.requestPermissions(MainActivity.this,new
String[]{
Manifest.permission.CAMERA}, RequestPermissionCode);
    }
}

```

```

    }

    @Override

    public void onRequestPermissionsResult(int RC, String per[], int[]
    PResult) {

        super.onRequestPermissionsResult(RC, per, PResult);

        switch (RC) {

            case RequestPermissionCode:

                if (PResult.length > 0 && PResult[0] ==
                PackageManager.PERMISSION_GRANTED) {

                    Toast.makeText(MainActivity.this, "Permission Granted,
                    Now your application can access CAMERA.",
                    Toast.LENGTH_LONG).show();

                } else {

                    Toast.makeText(MainActivity.this, "Permission Canceled,
                    Now your application cannot access CAMERA.",
                    Toast.LENGTH_LONG).show();

                }

                break;

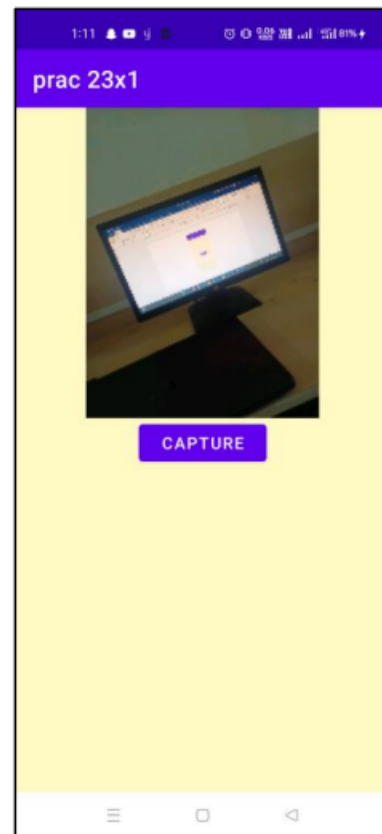
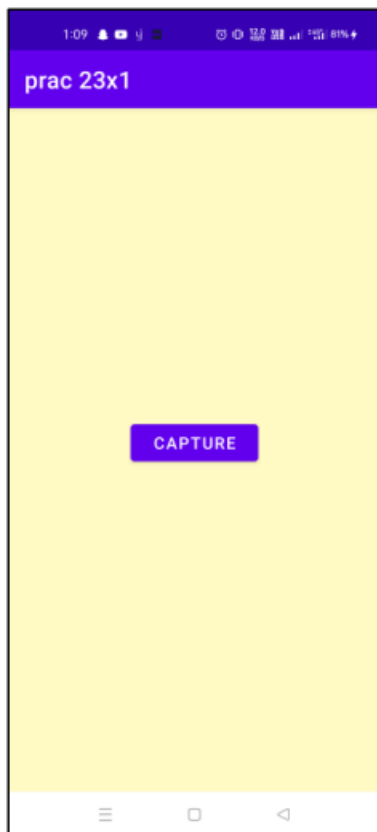
            }

        }

    }

```

- **Output:**



X.2

- **Program**
- **XML File:**

```
<?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:id="@+id/activity_main"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
android:background="#FFF9C4">

<ImageView
```

```

        android:layout_width="fill_parent"
        android:layout_height="300dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/imageView" />

        <Button
            android:text=" capture video "
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:id="@+id/button" />

    </LinearLayout>

```

- **JAVA File:**

```

package com.example.prac23x2;
import android.Manifest;
import android.content.Intent;
import android.content.pm.PackageManager;
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;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
public class MainActivity extends AppCompatActivity {
    Button button ;
    ImageView imageView ;
    Intent intent ;
    public static final int RequestPermissionCode = 1 ;

```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    button = (Button)findViewById(R.id.button);
    imageView = (ImageView)findViewById(R.id.imageView);
    EnableRuntimePermission();
    button.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            intent = new Intent(MediaStore.ACTION_VIDEO_CAPTURE);
            startActivityForResult(intent, 7);
        }
    });
}

protected void onActivityResult(int requestCode, int resultCode, Intent
data) {
    super.onActivityResult(requestCode, resultCode, data);
    if (requestCode == 7 && resultCode == RESULT_OK) {
        Bitmap bitmap = (Bitmap) data.getExtras().get("data");
        imageView.setImageBitmap(bitmap);
    }
}

public void EnableRuntimePermission(){
    if
(ActivityCompat.shouldShowRequestPermissionRationale(MainActivity.this
s,
Manifest.permission.CAMERA))
{
    Toast.makeText(MainActivity.this,"CAMERA permission allows us
to Access CAMERA app", Toast.LENGTH_LONG).show();
} else {
    ActivityCompat.requestPermissions(MainActivity.this,new
String[]{

```

```

Manifest.permission.CAMERA}, RequestPermissionCode);
}
}
@Override
public void onRequestPermissionsResult(int RC, String per[], int[]
PResult) {
    super.onRequestPermissionsResult(RC, per, PResult);
    switch (RC) {
        case RequestPermissionCode:
            if (PResult.length > 0 && PResult[0] ==
PackageManager.PERMISSION_GRANTED) {
                Toast.makeText(MainActivity.this, "Permission Granted,
Now your application can access CAMERA.",
Toast.LENGTH_LONG).show();
            } else {
                Toast.makeText(MainActivity.this, "Permission Canceled,
Now your application cannot access CAMERA.",
Toast.LENGTH_LONG).show();
            }
            break;
        }
    }
}

```


- **Output:**

