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Lab: 04 & 05

MOS – Mobile Operating System

AIM: Android Components – Intent. Show Communication between two Activity. And for lab 05, perform application to record video or capture photo using camera.

CODE:

File name: Activity.xmls

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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">

<Button
    android:layout_width="wrap_content"
    android:layout_marginBottom="50dp"
    app:layout_constraintBottom="50dp"
    app:layout_constraintBottom="50dp"
    app:layout_constraintLeft_toLeftOf="parent"
    android:layout_marginLeft="50dp"
    app:layout_constraintLeft_toLeftOf="parent"
    android:text="@string/click"
    android:layout_width="wrap_content"
    android:layout_marginEntcom="50dp"
    app:layout_constraintBottom="50dp"
    app:layout_constraintBottom="50dp"
    app:layout_constraintBottom="50dp"
    app:layout_constraintBottom="50dp"
    app:layout_constraintRight_toRightOf="parent"
    android:text="@string/clickl"
    android:text="@string/clickl"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_onostraintRight_toRightOf="parent"
    android:layout_onostraintRight_toRightOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    android:layout_marginTop="30dp"
    app:layout_constraintLeft_toLeftOf="parent"</pre>
```

```
<ImageView</pre>
    tools:srcCompat="@tools:sample/avatars" />
    android:inputType="textPersonName"
<EditText
<EditText
    app:layout constraintTop toTopOf="parent"
<EditText
```

```
android:id="@+id/editTextTextEmailAddress"
    android:layout_width="250dp"
    android:layout_height="40dp"
    android:hint=" Enter your email address "
    android:ems="10"
    android:inputType="textEmailAddress"
    app:layout_constraintTop_toTopOf="parent"
    android:layout_marginTop="410dp"
    app:layout_constraintLeft_toLeftOf="parent"
    android:layout_marginLeft="60dp"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

File Name: MainActivity.java

```
ImageView imageView;
protected void onCreate(Bundle savedInstanceState) {
      varPhone = (EditText) findViewById(R.id.editTextPhone);
varBirth = (EditText) findViewById(R.id.editTextDate);
varEmail = (EditText) findViewById(R.id.editTextTextEmailAddress);
```

```
Intent(MediaStore.ACTION IMAGE CAPTURE);
                pimg.buildDrawingCache();
Toast.makeText(MainActivity.this, str, Toast.LENGTH SHORT).show();
                p=varPhone.getText().toString();
                b=varBirth.getText().toString();
                e=varEmail.getText().toString();
        BtnClick1.setOnClickListener(new View.OnClickListener() {
                startActivity(i);
    private String saveToInternalStorage(Bitmap bitmapImage) {
```

```
ContextWrapper cw = new ContextWrapper(getApplicationContext());

File directory = cw.getDir("imageDir", Context.MODE_PRIVATE);
File mypath = new File(directory, "profile.jpg");

FileOutputStream fos = null;

try {
    fos = new FileOutputStream(mypath);
    bitmapImage.compress(Bitmap.CompressFormat.PNG, 100, fos);
} catch (Exception e) {
    e.printStackTrace();
} finally {
    try {
        fos.close();
    } catch (IOException e) {
        e.printStackTrace();
    }
} return directory.getAbsolutePath();
}
```

File name: display activity.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="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=".display">

<ImageView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginRight="220dp"
    app:layout_constraintRight_"220dp"
    app:layout_constraintTop_toTopOf="parent"
    android:layout_marginTop="100dp"
    tools:srcCompat="@tools:sample/avatars" />

<TextView
    android:layout_width="wrap_content"
    android:layout_beight="wrap_content"
    app:layout_constraintEft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintBottom_toBottomOf="parent"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_beight="wrap_content"
    android:layout_constraintBottom_toBottomOf="parent"
    android:layout_constraintRight_toRightOf="parent"
    android:layout_constraintRight_toRightOf="parent"</pre>
```

```
app:layout_constraintLeft_toLeftOf="parent"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

File Name: display.java

```
public class display extends AppCompatActivity {
       tName.setText("\nName: "+sName+"\nPhone: "+sPhone+"\nDOB:
"+sDOB+"\nEmail: "+sEmail);
ready", Toast. LENGTH SHORT) .show();
    private void loadImageFromStorage(String path) {
```

```
try {
          File f = new File(path, "profile.jpg");
          Bitmap b = BitmapFactory.decodeStream(new FileInputStream(f));
          ImageView img = (ImageView) findViewById(R.id.profile);
          img.setImageBitmap(b);
}
catch (FileNotFoundException e) {
          e.printStackTrace();
}
}
```

File Name: strings.xml

OUTPUT:









