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Subject: Mobile App Development Lab (PBI 501)

Ques1. Develop an android application to demonstrate Implicit as well as Explicit Intent.

manifest.xml>

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  package="com.example.midterm">
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launcher"
    android:label="@string/app name"
    android:roundlcon="@mipmap/ic_launcher_round"
    android:supportsRtl="true"
    android:theme="@style/Theme.MidTerm">
      android:name=".MainActivity"
      android:exported="true">
      <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
      </intent-filter>
    </activity>
    <activity
      android:name=".ExplicitActivity"
      android:exported="true">
    </activity>
  </application>
```

MainActivity.java>

package com.example.midterm;

import androidx.appcompat.app.AppCompatActivity;

```
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends AppCompatActivity {
Button explicit, implicit;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
 explicit = (Button)findViewById(R.id.explicit);
 implicit = (Button)findViewById(R.id.implicit);
 explicit.setOnClickListener(new View.OnClickListener() {
    @Override
   public void onClick(View view) {
     Intent i = new Intent(getApplicationContext() ,ExplicitActivity.class);
      startActivity(i);
 });
 implicit.setOnClickListener(new View.OnClickListener() {
   @Override
   public void onClick(View view) {
      Intent i = new Intent(Intent.ACTION DIAL);
     i.setData(Uri.parse("tel:"+ "8449087001"));
      startActivity(i);
 });
```

ExplicitActivity>

```
package com.example.midterm;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
```

```
public class ImplicitActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity explicit);
MainActivity.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/tools"
  android:layout width="match parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="Arjun Singh"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout constraintLeft toLeftOf="parent"
    app:layout constraintRight toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
    android:id="@+id/implicit"
    android:layout width="222dp"
    android:layout height="60dp"
    android:layout marginBottom="160dp"
    android:text="Implicit"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.551"
    app:layout_constraintStart_toStartOf="parent" />
    android:id="@+id/explicit"
    android:layout_width="222dp"
    android:layout height="60dp"
    android:layout_marginTop="484dp"
    android:text="Explicit"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.551"
```

```
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

ExplicitActivity.xml>

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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=".ExplicitActivity">
  <TextView
    android:id="@+id/textView"
    android:layout width="367dp"
    android:layout_height="415dp"
    android:text="This is triggred via explicit intent"
    android:textSize="50px"
    android:textAlignment="center"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```





