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Subject : Mobile App Developement.

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

manifest.xml>

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.midterm">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.MidTerm">
        <activity
            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>

</manifest>
```

MainActivity.java>

```java
package com.example.midterm;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
```

```java
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:"+ "7088292032"));
            startActivity(i);
        }
    });


    }
}
```

ExplicitActivity>

```java
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
<?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">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Harshit Behar"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        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" />

    <Button
        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
<?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"
```

```xml
    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>
```

Mid Term

Hello World!

IMPLICIT

EXPLICIT

This is triggred via explicit intent