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| A picture containing drawing, stop, room  Description automatically generated | Mobile Programming  Practical #5 | | |
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| **Name** |  | **Roll Number** |  |
| **Subject/Course:** | Mobile Programming | | |
| **Topic** | Camera Plugin | | |
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| Camera Plugin | | | |
| 1. Create an app to capture an image using Camera. | | | |
| 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"**>      <**ImageView**  **android:id="@+id/imageView"**  **android:layout\_width="187dp"**  **android:layout\_height="187dp"**  **tools:layout\_editor\_absoluteX="96dp"**  **tools:layout\_editor\_absoluteY="99dp"**  **tools:srcCompat="@tools:sample/avatars"** />    <**Button**  **android:id="@+id/button"**  **android:layout\_width="wrap\_content"**  **android:layout\_height="wrap\_content"**  **android:text="Button"**  **tools:layout\_editor\_absoluteX="126dp"**  **tools:layout\_editor\_absoluteY="450dp"** />    </**androidx.constraintlayout.widget.ConstraintLayout**>    Kotlin  **package** com.example.practical3    import android.app.Activity  import android.content.ActivityNotFoundException  import android.content.Intent  import android.graphics.Bitmap  import androidx.appcompat.app.AppCompatActivity  import android.os.Bundle  import android.provider.MediaStore  import android.widget.Button  import android.widget.ImageView    class MainActivity : AppCompatActivity() {  **private val camerarequest**=200  **override fun** onCreate(savedInstanceState: Bundle?) {  **super**.onCreate(savedInstanceState)  setContentView(R.layout.*activity\_main*)  **val** btn=findViewById<Button>(R.id.*button*) **as** Button  **val** cam=findViewById<ImageView>(R.id.*imageView*) **as** ImageView    btn?.setOnClickListener **{**  **try** {  capturePhoto()  }**catch** (e:ActivityNotFoundException){    }  **}** }    **override fun** onActivityResult(requestCode: Int, resultCode: Int, data: Intent?) {  **super**.onActivityResult(requestCode, resultCode, data)  **val** cam=findViewById<ImageView>(R.id.*imageView*) **as** ImageView  **if** (resultCode== Activity.*RESULT\_OK* && requestCode==**camerarequest** && data!=**null**)  {  **val** photo:Bitmap= data?.*extras*?.get(**"data"**) **as** Bitmap  cam.setImageBitmap(photo)  }  }  **fun** capturePhoto(){  **val** camintent=Intent(MediaStore.*ACTION\_IMAGE\_CAPTURE*)  startActivityForResult(camintent,**camerarequest**)  }  }    Manifest  *<?***xml version="1.0" encoding="utf-8"***?>*  *<***manifest xmlns:android="http://schemas.android.com/apk/res/android"**  **xmlns:tools="http://schemas.android.com/tools"**  **package="com.example.practical3"**>  <**uses-feature android:name="android.hardware.camera"**  **android:required="true"**/>  <**application**  **android:allowBackup="true"**  **android:dataExtractionRules="@xml/data\_extraction\_rules"**  **android:fullBackupContent="@xml/backup\_rules"**  **android:icon="@mipmap/ic\_launcher"**  **android:label="@string/app\_name"**  **android:roundIcon="@mipmap/ic\_launcher\_round"**  **android:supportsRtl="true"**  **android:theme="@style/Theme.Practical3"**  **tools:targetApi="31"**>  <**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**>  </**application**>    </**manifest**> | | | |
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