```
Name : Deepankar Sharma Course: BCA
```

University Roll No: 2092014

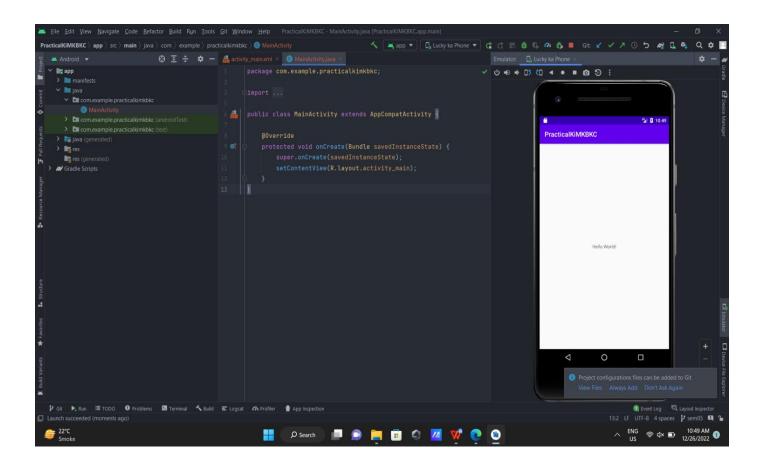
Student Id : 20041299

Semester: 5

Date: December 26, 2022

Practical 01: Hello World App

```
Objective: Create an Android Hello World App.
XML
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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=".MainActivity">
    <TextView
        android:layout_width="wrap content"
        android:layout height="wrap content"
        android:text="Hello World!"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent" />
</android.support.constraint.ConstraintLayout>
JAVA
package com.example.practicalkimkbkc;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
    }
}
```



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Practical 02: Unit Convertor App

<u>Objective:</u> Create an Android app to convert kilograms into pounds. <u>JAVA CODE</u>
package com.example.unitconverter;

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    private Button b;
    private TextView tv;
    private EditText et;
```

```
@Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        b= findViewById(R.id.button);
        tv= findViewById(R.id.textView);
        et= findViewById(R.id.editTextTextPersonName);
        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Toast.makeText(MainActivity.this,
                                                                 "Converted
Successfully !!!", Toast.LENGTH_SHORT).show();
                String s= et.getText().toString();
                int kg= Integer.parseInt(s);
                double pound= kg*2.205;
                tv.setText("The corresponding Pounds value is: "+ pound);
            }
        });
    }
}
```



Enter the value in kilograms below

45

CONVERT



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@Override

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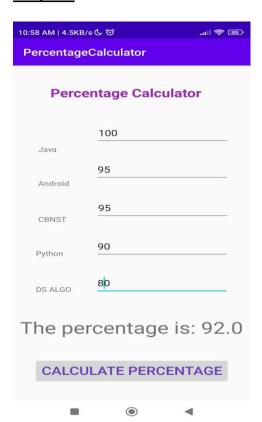
Date: September 12, 2022

Practical 03: Scorecard App

<u>Objective:</u> Create an Android app which takes input marks of five subjects and calculates the percentage as output.

```
JAVA CODE
package com.example.percentagecalculator;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    private Button b;
    private EditText e1;
    private EditText e2;
    private EditText e3;
    private EditText e4;
    private EditText e5;
    private TextView t1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b= findViewById(R.id.button);
        e1= findViewById(R.id.editTextNumberDecimal);
        e2= findViewById(R.id.editTextNumberDecimal2);
        e3= findViewById(R.id.editTextNumberDecimal3);
        e4= findViewById(R.id.editTextNumberDecimal4);
        e5= findViewById(R.id.editTextNumberDecimal5);
        t1= findViewById(R.id.textView7);
        b.setOnClickListener(new View.OnClickListener() {
```

```
public void onClick(View view) {
                Toast.makeText(MainActivity.this, "Done!",
Toast.LENGTH_SHORT).show();
                String s1= e1.getText().toString();
                String s2= e2.getText().toString();
                String s3= e3.getText().toString();
                String s4= e4.getText().toString();
                String s5= e5.getText().toString();
                double d1= Double.parseDouble(s1);
                double d2= Double.parseDouble(s2);
                double d3= Double.parseDouble(s3);
                double d4= Double.parseDouble(s4);
                double d5= Double.parseDouble(s5);
                double sum= d1+d2+d3+d4+d5;
                t1.setText("The percentage is: " + sum/5 );
            }
        });
    }
}
```



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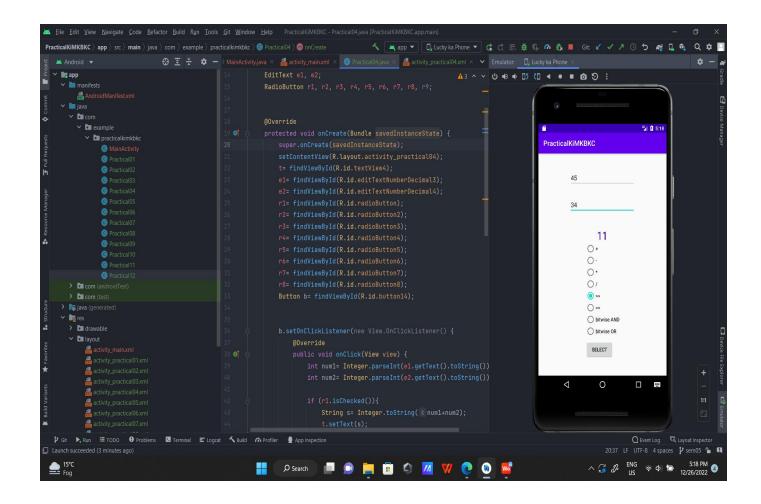
Date: September 12, 2022

Practical 04: Calculator App

```
Objective: 4. Scientific calculator (which include java operators, >>, <<,
&, ~ etc)
Java
package com.example.practicalkimkbkc;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.TextView;
public class Practical04 extends AppCompatActivity {
    TextView t;
    EditText e1, e2;
    RadioButton r1, r2, r3, r4, r5, r6, r7, r8, r9;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_practical04);
        t= findViewById(R.id.textView4);
        e1= findViewById(R.id.editTextNumberDecimal3);
        e2= findViewById(R.id.editTextNumberDecimal4);
        r1= findViewById(R.id.radioButton);
        r2= findViewById(R.id.radioButton2);
        r3= findViewById(R.id.radioButton3);
        r4= findViewById(R.id.radioButton4);
        r5= findViewById(R.id.radioButton5);
        r6= findViewById(R.id.radioButton6);
        r7= findViewById(R.id.radioButton7);
        r8= findViewById(R.id.radioButton8);
        Button b= findViewById(R.id.button14);
        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
```

```
int num1= Integer.parseInt(e1.getText().toString());
                int num2= Integer.parseInt(e2.getText().toString());
                if (r1.isChecked()){
                    String s= Integer.toString(num1+num2);
                    t.setText(s);
                }
                else if (r2.isChecked()){
                    String s= Integer.toString(num1-num2);
                    t.setText(s);
                }
                else if (r3.isChecked()){
                    String s= Integer.toString(num1*num2);
                    t.setText(s);
                }
                else if (r4.isChecked()){
                    String s= Integer.toString(num1/num2);
                    t.setText(s);
                else if (r5.isChecked()){
                    String s= Integer.toString(num1>>num2);
                    t.setText(s);
                }
                else if (r6.isChecked()){
                    String s= Integer.toString(num1<<num2);</pre>
                    t.setText(s);
                else if (r7.isChecked()){
                    String s= Integer.toString(num1&num2);
                    t.setText(s);
                }
                else if (r8.isChecked()){
                    String s= Integer.toString(num1|num2);
                    t.setText(s);
                }
            }
        });
    }
}
```

<u>Output</u>



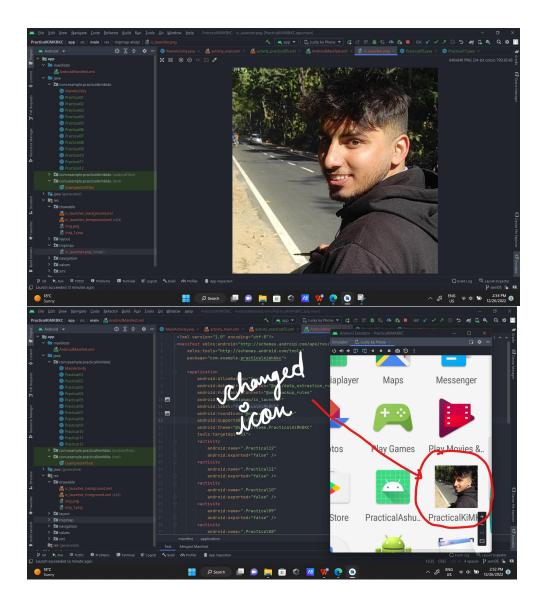
Practical 05: Change Icon

Objective: Change the app icon image.

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   xmlns:tools="http://schemas.android.com/tools"
   package="com.example.practicalkimkbkc">
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data extraction rules"
        android:fullBackupContent="@xml/backup rules"
        android:icon="@mipmap/new icon"
        android:label="@string/app name"
        android:roundIcon="@mipmap/ic launcher round"
        android:supportsRtl="true"
        android:theme="@style/Theme.PracticalKiMKBKC"
        tools:targetApi="31">
        <activity
            android:name=".Practical12"
            android:exported="false" />
```

```
<activity
            android:name=".Practical11"
            android:exported="false" />
        <activity
            android:name=".Practical10"
            android:exported="false" />
        <activity
            android:name=".Practical09"
            android:exported="false" />
        <activity
            android:name=".Practical08"
            android:exported="false" />
        <activity
            android:name=".Practical07"
            android:exported="false" />
        <activity
            android:name=".Practical06"
            android:exported="false" />
        <activity
            android:name=".Practical05"
            android:exported="false" />
        <activity
            android:name=".Practical04"
            android:exported="false" />
        <activity
            android:name=".Practical03"
            android:exported="false" />
        <activity
            android:name=".Practical02"
            android:exported="false" />
        <activity
            android:name=".Practical01"
            android:exported="false" />
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER"</pre>
/>
            </intent-filter>
        </activity>
    </application>
</manifest>
```



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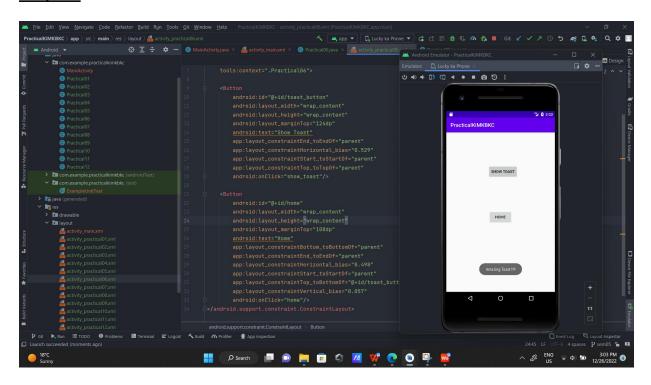
Date: December 26, 2022

Practical 06: Demo Toast

Objective: Create an Android app to demonstrate Toast.
Java

```
package com.example.practicalkimkbkc;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
```

```
public class Practical06 extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_practical06);
    public void home(View v){
        Intent i= new Intent(this, MainActivity.class);
        Toast.makeText(this,
                                   "Going
                                                Back
                                                           to
                                                                     Home",
Toast.LENGTH_LONG).show();
        startActivity(i);
    public void show toast(View v){
        Toast.makeText(this, "Amazing
                                                                     !!!!",
                                                  Toast
Toast.LENGTH LONG).show();
}
```



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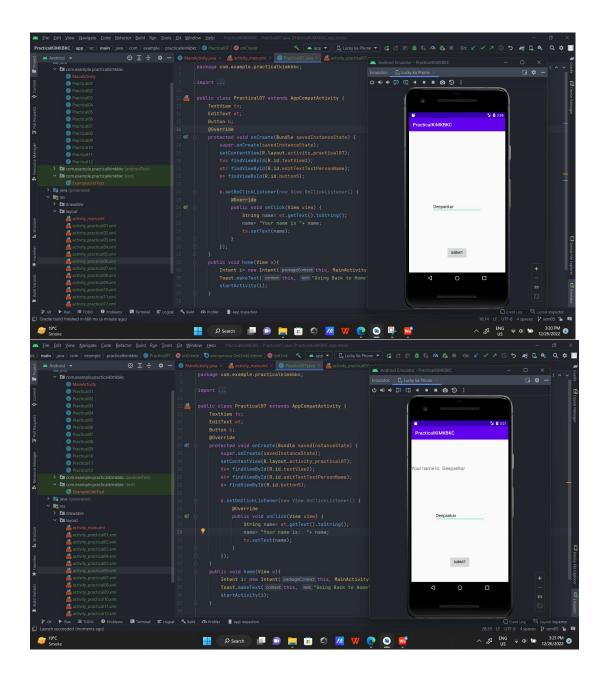
Date: December 26, 2022

Practical 07: View Demo

<u>Objective:</u> Create an Android app for demonstration of button, edit view, text view and setting click listeners.

JAVA:

```
package com.example.practicalkimkbkc;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class Practical07 extends AppCompatActivity {
    TextView tv;
    EditText et;
    Button b:
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity practical07);
        tv= findViewById(R.id.textView2);
        et= findViewById(R.id.editTextTextPersonName);
        b= findViewById(R.id.button5);
        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String name= et.getText().toString();
                name= "Your name is "+ name;
                tv.setText(name);
        });
    }
    public void home(View v){
        Intent i= new Intent(this, MainActivity.class);
        Toast.makeText(this,
                                   "Going
                                                Back
                                                            to
                                                                     Home",
Toast.LENGTH LONG).show();
        startActivity(i);
    }
}
```



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Date: December 26, 2022

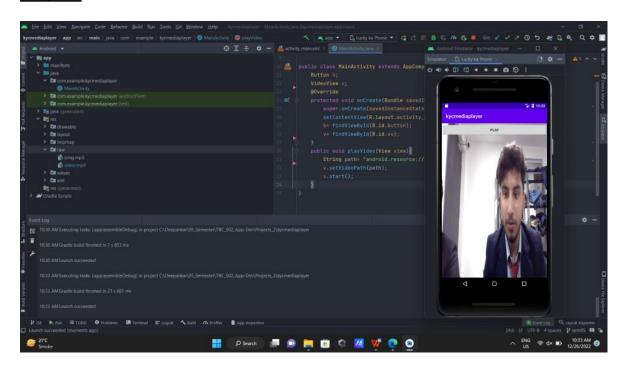
Practical 08: Media Player App

Objective: Create an Android app media player.

JAVA CODE

package com.example.kycmediaplayer;

```
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.MediaController;
import android.widget.VideoView;
public class MainActivity extends AppCompatActivity {
    Button b;
    VideoView v;
    MediaController mc;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        b= findViewById(R.id.button);
        v= findViewById(R.id.vv);
        mc= new MediaController(this);
    }
    public void playVideo(View view){
                                                     "android.resource://"+
        String
getPackageName()+"/"+R.raw.video;
        v.setMediaController(mc);
        mc.setAnchorView(v);
        v.setVideoPath(path);
        v.start();
    }
}
```



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Practical 09: Setting Media Controllers App

<u>Objective:</u> Create an Android app media player and set the media controllers.

XML CODE

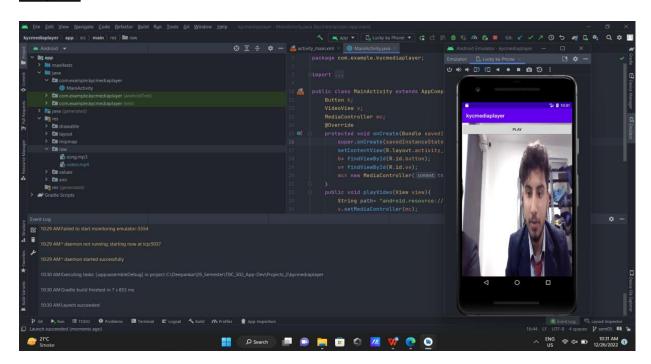
```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity">
    <Button
        android:id="@+id/button"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:text="@string/play"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.439"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.004"
        android:onClick="playVideo"/>
    <VideoView
        android:id="@+id/vv"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        tools:layout editor absoluteX="-55dp"
        tools:layout editor absoluteY="-16dp" />
```

</android.support.constraint.ConstraintLayout>

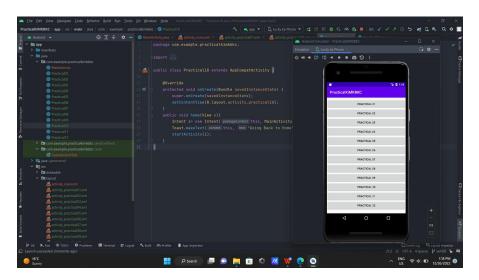
JAVA CODE

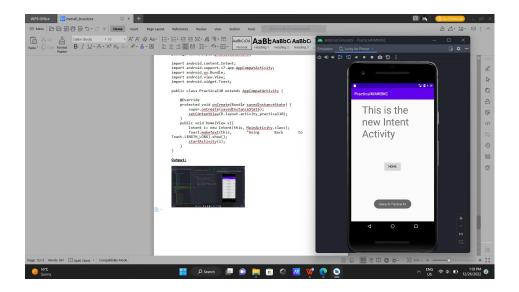
package com.example.kycmediaplayer;

```
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.MediaController;
import android.widget.VideoView;
public class MainActivity extends AppCompatActivity {
    Button b;
    VideoView v;
    MediaController mc;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        b= findViewById(R.id.button);
        v= findViewById(R.id.vv);
        mc= new MediaController(this);
    public void playVideo(View view){
                                                     "android.resource://"+
        String
                               path=
getPackageName()+"/"+R.raw.video;
        v.setMediaController(mc);
        mc.setAnchorView(v);
        v.setVideoPath(path);
        v.start();
    }
}
```



```
Name: Deepankar Sharma
Course: BCA
University Roll No: 2092014
Student Id : 20041299
Semester: 5
Date: December 26, 2022
                         Practical 10: Intent App
Objective: Create an Android app to demonstrate intent.
Java
package com.example.practicalkimkbkc;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
public class Practical10 extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_practical10);
    public void home(View v){
        Intent i= new Intent(this, MainActivity.class);
        Toast.makeText(this,
                                   "Going
                                                Back
                                                                     Home",
                                                           to
Toast.LENGTH_LONG).show();
        startActivity(i);
    }
}
```



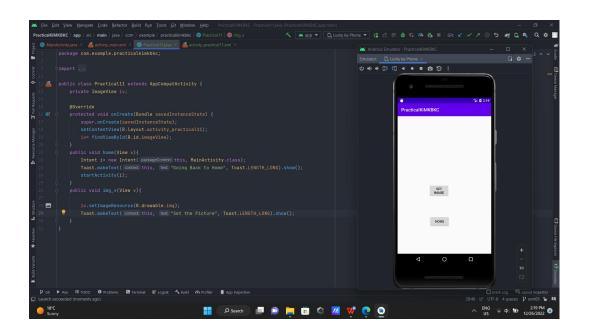


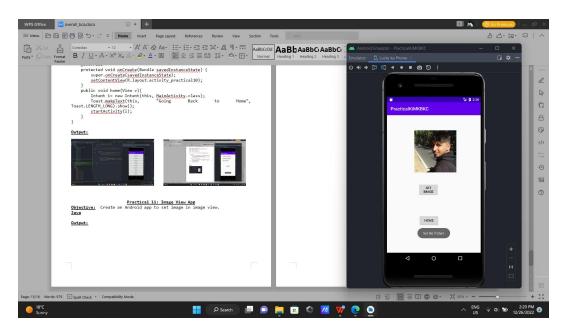
Practical 11: Image View App

```
Objective: Create an Android app to set image in image view.
Java
```

```
package com.example.practicalkimkbkc;
import android.content.Intent;
import android.graphics.drawable.BitmapDrawable;
import android.graphics.drawable.Drawable;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageView;
import android.widget.Toast;
public class Practical11 extends AppCompatActivity {
    private ImageView iv;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_practical11);
        iv= findViewById(R.id.imageView);
    }
    public void home(View v){
        Intent i= new Intent(this, MainActivity.class);
        Toast.makeText(this,
                                   "Going
                                                Back
                                                            to
                                                                     Home",
Toast.LENGTH LONG).show();
        startActivity(i);
    public void img v(View v){
        iv.setImageResource(R.drawable.img);
```

```
Toast.makeText(this, "Set the Picture", Toast.LENGTH_LONG).show();
}
}
Output:
```





Practical 12: Simple Quiz App

<u>Objective:</u> Create an Android app for designing a quiz application. <u>Java</u>

```
package com.example.practicalkimkbkc;
import static android.widget.Toast.*;
```

```
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;
import android.widget.Toast;
public class Practical12 extends AppCompatActivity {
    TextView t;
    RadioButton r1, r2, r3;
    RadioGroup rg;
    Button b;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity practical12);
        t= findViewById(R.id.textView5);
        r1= findViewById(R.id.radioButton9);
        r2= findViewById(R.id.radioButton10);
        r3= findViewById(R.id.radioButton11);
        rg= findViewById(R.id.radioGroup);
        r2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                t.setText("Right");
        });
        r1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                t.setText("Wrong");
            }
        });
        r3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                t.setText("Wrong");
            }
        });
    }
}
```

