DEPARTMENT OF COMPUTER ENGINEERING

PRACTICAL ASSESSMENT SHEET

Experiment number: - 06

Title of experiment: - EASY LEARNING GUI USING ANDROID STUDIO

Name of Student: - Niraj Nitin Surve

Roll number: - 68

Date of performance: -

Date of submission: -

Attendance 03 marks	Submission 03 marks	Performance 03 marks	Oral 03 marks	Result 03 marks	Total 15 marks

Faculty Signature with date

Practical No. 06

TITLE: EASY GUI USING ANDROID STUDIO

AIM: IMPLEMENT EASY GUI USING ANDROID STUDIO

APPARATUS: ANDROID STUDIO

THEORY:

- **activity_main.xml**

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:background="@drawable/bg">
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:padding="30dp">
        <TextView
            android:id="@+id/hello"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Hello,"
            android:textColor="#fff"
            android:textSize="20dp"/>
```

```xml
        android:textSize="20dp"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="USER"
        android:textColor="#fff"
        android:textStyle="bold"
        android:fontFamily="sans-serif-black"
        android:textSize="26dp"
        android:layout_below="@id/hello"
        android:layout_marginTop="10dp"/>
    <Button
        android:layout_width="70dp"
        android:layout_height="70dp"
        android:layout_alignParentRight="true"
        android:background="@drawable/profile"/>
    <RelativeLayout
        android:id="@+id/r1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="@drawable/search_bg"
        android:layout_marginTop="100dp">
        <ImageView
            android:layout_width="20dp"
            android:layout_height="20dp"
            android:src="@drawable/search_img"
            android:layout_alignParentLeft="true"
            android:layout_centerVertical="true"
            android:layout_marginLeft="20dp"/>
```

```xml
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Search"
            android:layout_marginLeft="55dp"
            android:layout_centerVertical="true"
            android:textSize="18dp"
            android:textColor="#03082b"/>
        <ImageView
            android:layout_width="20dp"
            android:layout_height="20dp"
            android:src="@drawable/arrow_bottom"
            android:layout_alignParentRight="true"
            android:layout_centerVertical="true"
            android:layout_marginRight="20dp"/>
    </RelativeLayout>
</RelativeLayout>
<LinearLayout
    android:layout_width="match_parent"
        android:layout_height="wrap_content"
    android:orientation="horizontal">
    <RelativeLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content">
        <ImageView
            android:id="@+id/backend"
            android:layout_width="200dp"
            android:layout_height="300dp"
            android:src="@drawable/backend"
            android:layout_marginLeft="5dp"/>
```

```xml
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Backend"
    android:textSize="25dp"
    android:textColor="#d703082b"
    android:textStyle="bold"
    android:layout_marginLeft="40dp"
    android:layout_marginTop="40dp"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="12 Courses"
    android:textSize="14dp"
    android:textColor="#ab03082b"
    android:textStyle="bold"
    android:layout_marginLeft="40dp"
    android:layout_marginTop="70dp"/>
</RelativeLayout>
<RelativeLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content">
    <ImageView
        android:id="@+id/frontend"
        android:layout_width="200dp"
        android:layout_height="300dp"
        android:src="@drawable/frontend"/>
    <TextView
        android:layout_width="wrap_content"
```

```xml
            android:layout_height="wrap_content"

            android:text="Frontend"

            android:textSize="25dp"

            android:textColor="#d703082b"

            android:textStyle="bold"

            android:layout_marginLeft="35dp"

            android:layout_marginTop="40dp"/>

        <TextView

            android:layout_width="wrap_content"

            android:layout_height="wrap_content"

            android:text="17 Courses"

            android:textSize="14dp"

            android:textColor="#ab03082b"

            android:textStyle="bold"

            android:layout_marginLeft="35dp"

            android:layout_marginTop="70dp"/>

    </RelativeLayout>

</LinearLayout>

<RelativeLayout

    android:layout_width="match_parent"

    android:layout_height="wrap_content">

    <TextView

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Courses List (3)"

        android:textColor="#03082b"

        android:textStyle="bold"

        android:textSize="20dp"

        android:layout_marginLeft="23dp"/>
```

```xml
    <ImageView
        android:id="@+id/img213456"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:background="#78F137"
        android:src="@drawable/ic_baseline_navigate_next_24"
        android:layout_alignParentRight="true"
        android:layout_centerVertical="true"
        android:layout_marginRight="20dp"/>
</RelativeLayout>
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <ImageView
        android:id="@+id/javascript"
        android:layout_width="380dp"
        android:layout_height="80dp"
        android:background="@drawable/cv4"
        android:layout_marginRight="20dp"
        android:layout_marginLeft="18dp"
        android:layout_marginTop="10dp"/>
    <ImageView
        android:layout_width="50dp"
        android:layout_height="50dp"
        android:src="@drawable/c4"
        android:layout_marginLeft="35dp"
        android:layout_centerVertical="true"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="JavaScript"
```

```xml
            android:textSize="20dp"

            android:textStyle="bold"

            android:textColor="#d703082b"

            android:layout_marginLeft="105dp"

            android:layout_marginTop="20dp"/>

    <TextView

            android:layout_width="wrap_content"

            android:layout_height="wrap_content"

            android:text="4 Hours, 20 Minutes"

            android:textSize="14dp"

            android:textStyle="bold"

            android:textColor="#6003082b"

            android:layout_marginLeft="105dp"

            android:layout_marginTop="50dp"/>

</RelativeLayout>

<RelativeLayout

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:layout_marginTop="3dp">

        <ImageView

            android:id="@+id/design"

            android:layout_width="380dp"

            android:layout_height="80dp"

            android:background="@drawable/cv2"

            android:layout_marginRight="20dp"

            android:layout_marginLeft="18dp" />

    <ImageView

            android:layout_width="50dp"

            android:layout_height="50dp"

            android:src="@drawable/c2"
```

```
            android:layout_marginLeft="35dp"

            android:layout_centerVertical="true"/>

        <TextView

            android:layout_width="wrap_content"

            android:layout_height="wrap_content"

            android:text="Responsive Design"

            android:textSize="20dp"

            android:textStyle="bold"

            android:textColor="#d703082b"

            android:layout_marginLeft="105dp"

            android:layout_marginTop="10dp"/>

        <TextView

            android:layout_width="wrap_content"

            android:layout_height="wrap_content"

            android:text="4 Hours, 20 Minutes"

            android:textSize="14dp"

            android:textStyle="bold"

            android:textColor="#6003082b"

            android:layout_marginLeft="105dp"

            android:layout_marginTop="40dp"/>

    </RelativeLayout>

</LinearLayout>
```
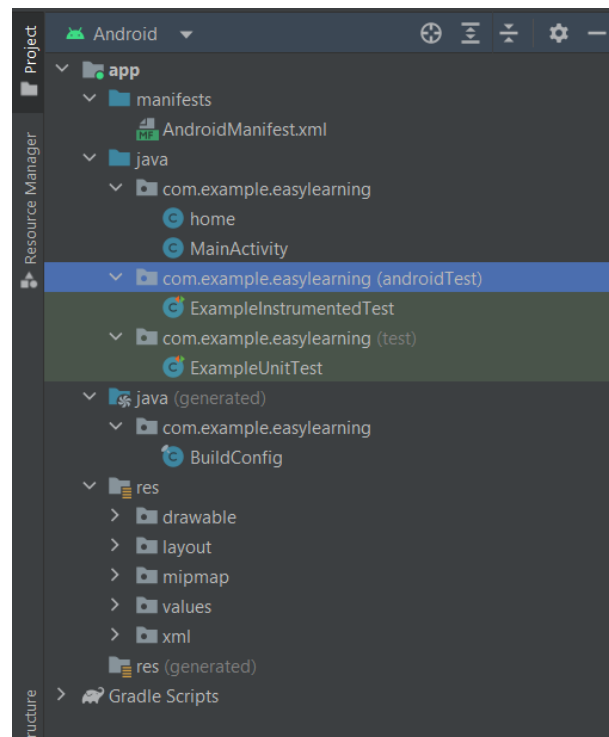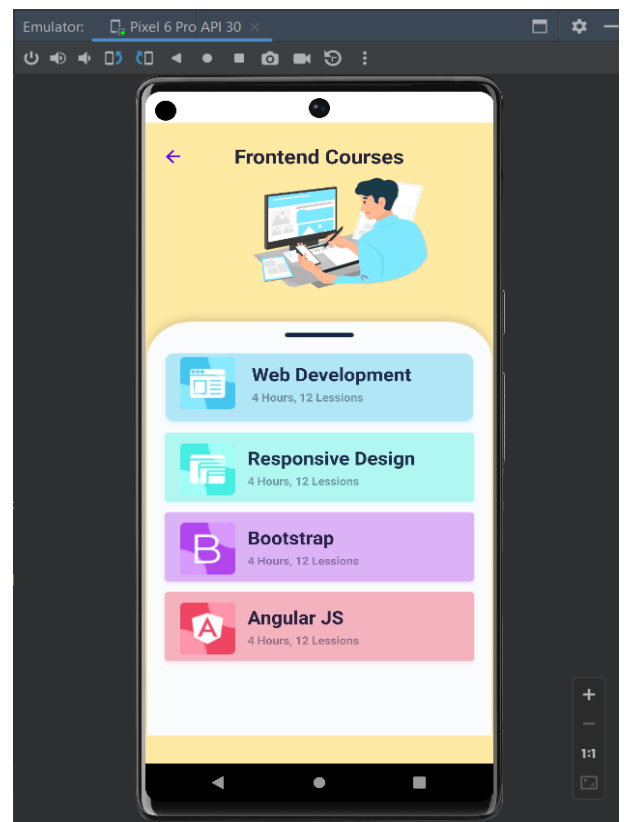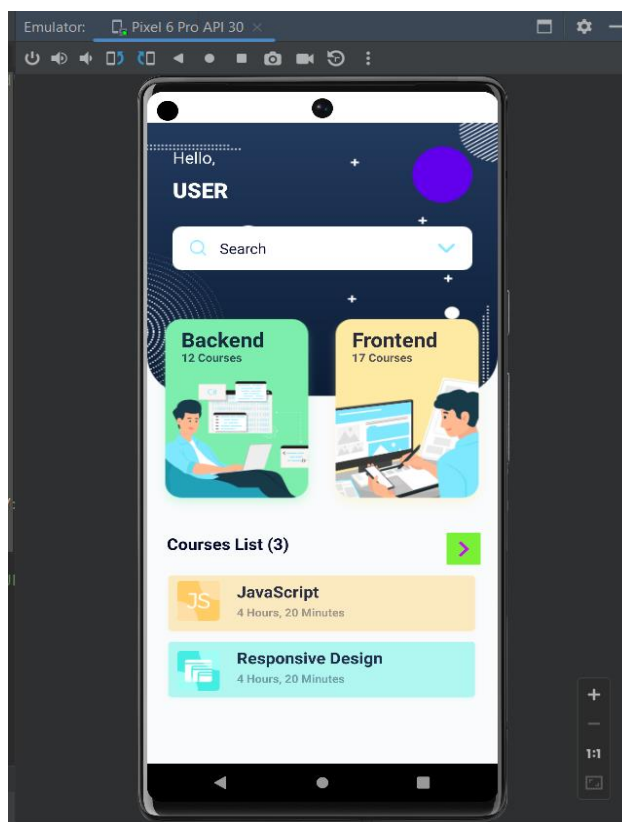
- **MainActivity.java**

```java
package com.example.easylearning;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.ImageView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

private ImageView imageView, backend, frontend, javascript,
design;

    @SuppressLint("MissingInflatedId")

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

    backend=findViewById(R.id.backend);

    frontend=findViewById(R.id.frontend);

    javascript=findViewById(R.id.javascript);

    design=findViewById(R.id.design);

    imageView=findViewById(R.id.img213456);

    imageView.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View v) {

            openhome();

        }

    });

    backend.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View v) {
```

```java
            Toast.makeText(MainActivity.this, "12 Courses
Available", Toast.LENGTH_SHORT).show();
        }
    });
    frontend.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Toast.makeText(MainActivity.this, "17 Courses
Available", Toast.LENGTH_SHORT).show();
        }
    });
    javascript.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Toast.makeText(MainActivity.this, "Course Duration 260
Minutes", Toast.LENGTH_SHORT).show();
        }
    });
    design.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Toast.makeText(MainActivity.this, "Course Duration 260
Minutes", Toast.LENGTH_SHORT).show();
        }
    });
    }
    public void openhome(){
        Intent intent = new Intent(this, home.class);
        startActivity(intent);
    }
}
```

- **Project Files –**

- **Output on Emulator –**

Conclusion: Thus we studied the implementation of Easy GUI in Android Studio.