

Experiment No. - 4

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Branch: BE-CSE(LEET)

Semester: 6th

Subject Name: Mobile Application Development Lab

UID: 21BCS8129

Section/Group:20BCS-ST-801/B

Date of Performance: 14/02/2023

Subject Code: 20CSP-356

1. Aim:

Creating Application by Using Url.

2. Objective:

Understanding and analyze the specific requirement, possibilities and challenges when developing for a mobile application context.

3. System Requirements:

- Microsoft Windows 7/8/10 (32-bit or 64-bit)
- 4 GB RAM minimum, 8 GB RAM recommended (plus 1 GB for the Android Emulator)
- 2 GB of available disk space minimum, 4 GB recommended (500 MB for IDE plus 1.5 GB for Android SDK and emulator system image)
- 1280 x 800 minimum screen resolution
- Java JDK5 or later version
- Java Runtime Environment (JRE) 6 Android Studio

4. Steps/Program:

activity_main.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:background="@drawable/gradient_background">
    <TextView
        android:id="@+id/surprise"
        android:layout_width="250sp"
        android:layout_height="50sp"
        android:layout_marginBottom="200dp"
        android:text="@string/magic_happens"
        android:textAlignment="center"
        android:textColor="#F0F62F"
        android:textSize="30sp"
        android:textStyle="bold|italic"
        app:layout_constraintBottom_toTopOf="@+id/youtube"
```

```

app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.939"
tools:ignore="TextSizeCheck" />
<Button
    android:id="@+id/youtube"
    android:layout_width="150sp"
    android:layout_height="60sp"
    android:layout_marginBottom="170dp"
    android:backgroundTint="#DA4B3E"
    android:text="@string/youtube"
    android:textColor="#A9F6ED"
    android:textSize="20sp"
    android:textStyle="bold|italic"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent" />
<ImageView
    android:id="@+id/facebook"
    android:layout_width="65sp"
    android:layout_height="57sp"
    android:layout_marginBottom="50sp"
    app:layout_constraintBottom_toTopOf="@+id/youtube"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:srcCompat="@drawable/download"
    tools:ignore="ContentDescription" />
<ImageView
    android:id="@+id/instagram"
    android:layout_width="96sp"
    android:layout_height="64sp"
    android:layout_marginBottom="45sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:srcCompat="@drawable/download__1_"
    tools:ignore="ContentDescription" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

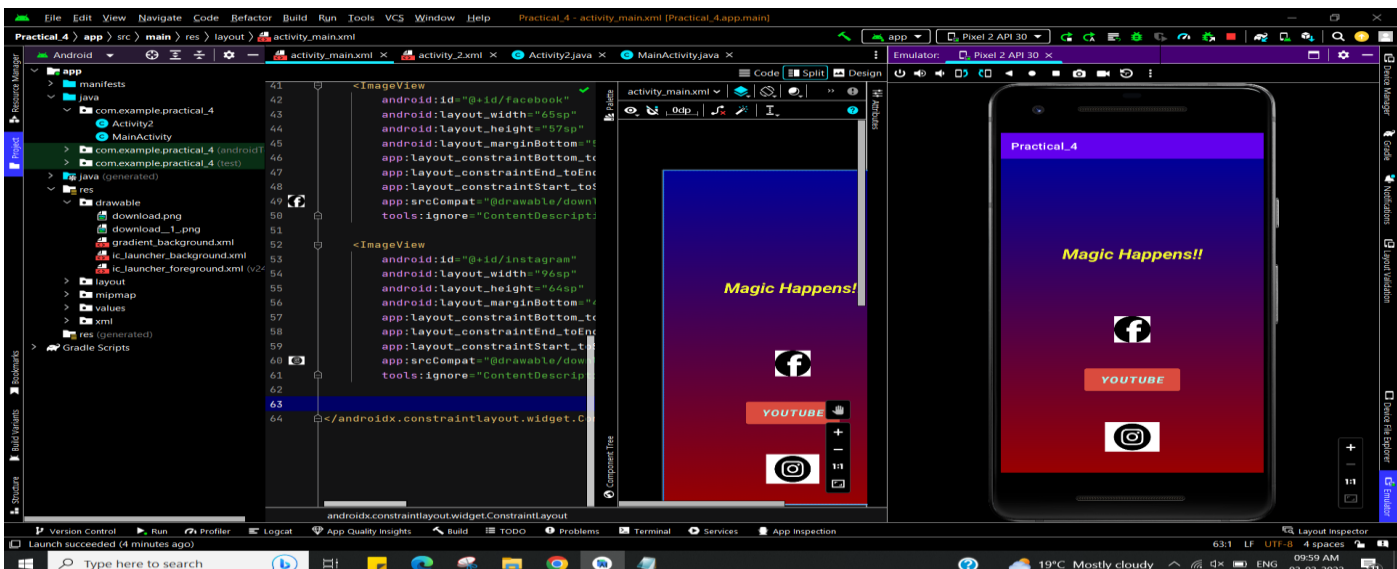
```

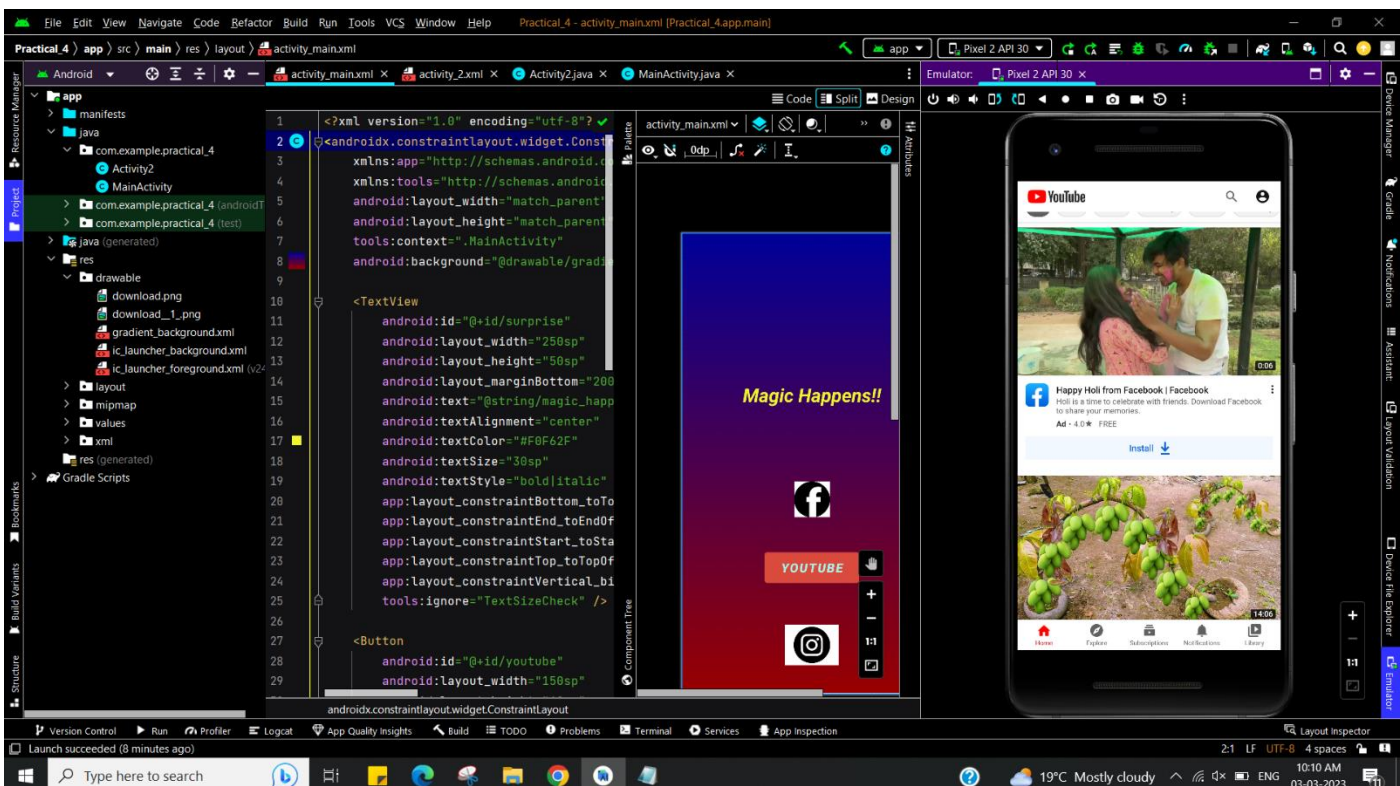
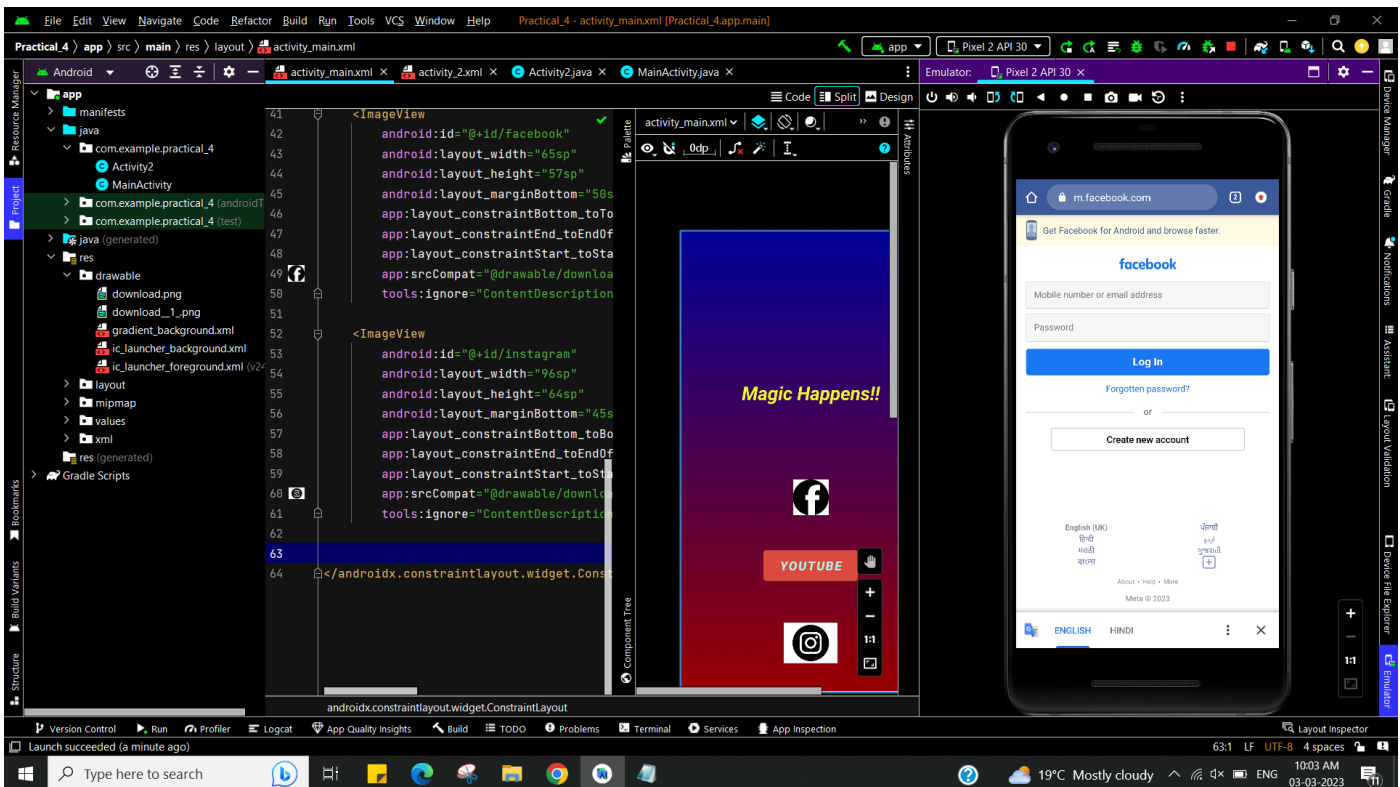
package com.example.practical_4;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.widget.Button;

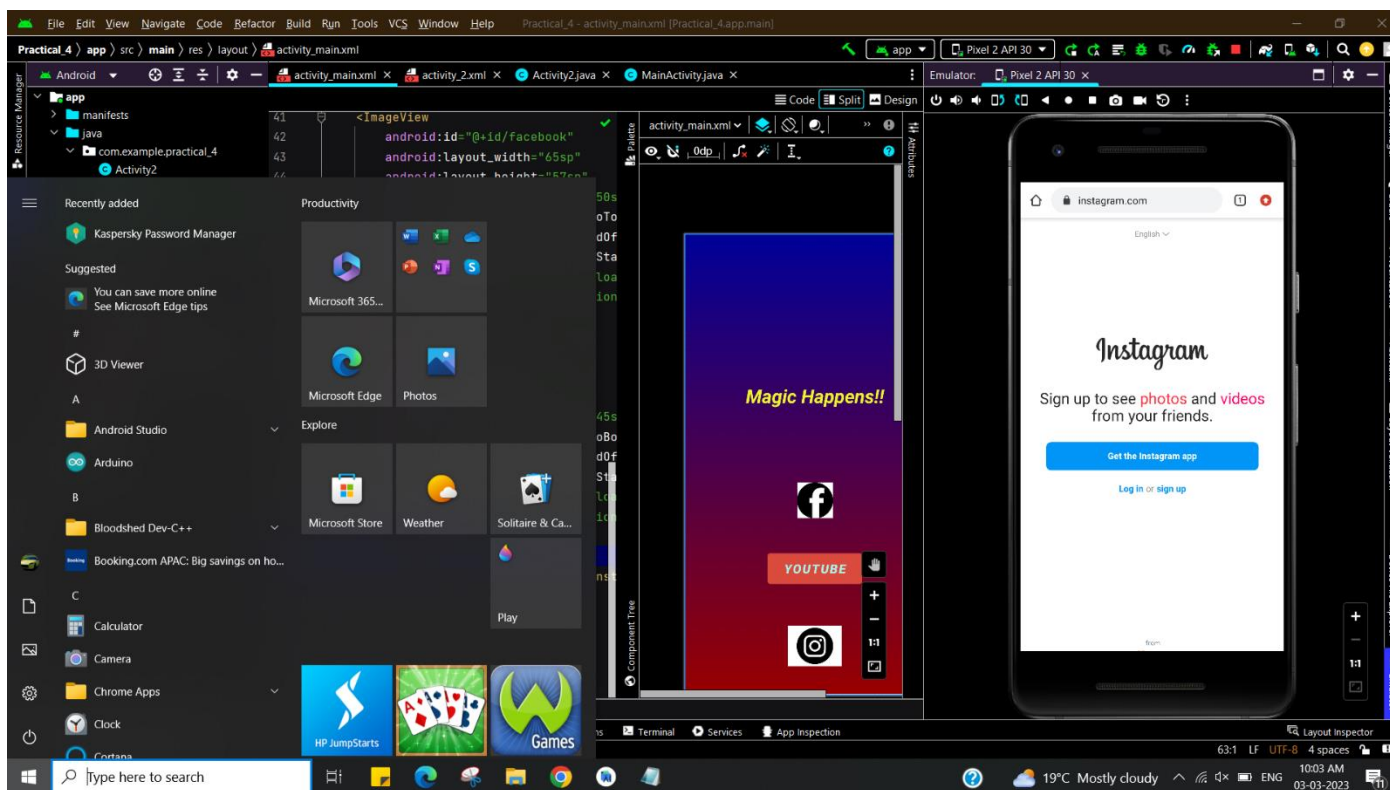
```

```
import android.widget.ImageView;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity
public class MainActivity extends AppCompatActivity {
    Button youtube;
    TextView surprise;
    ImageView facebook;
    ImageView instagram;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        youtube = findViewById(R.id.youtube);
        surprise = findViewById(R.id.surprise);
        facebook = findViewById(R.id.facebook);
        instagram = findViewById(R.id.instagram)
        youtube.setOnClickListener(view -> gotoUrl("https://www.youtube.com/"));
        surprise.setOnClickListener(view -> gotoUrl("https://gifer.com/en/gifs/surprise"));
        facebook.setOnClickListener(view -> gotoUrl("https://www.facebook.com/"));
        instagram.setOnClickListener(view -> gotoUrl("https://www.instagram.com/"));
    }
    public void openActivity2(){
        Intent intent = new Intent(this, Activity2.class);
        startActivity(intent);
    }
    private void gotoUrl(String s) {
        Uri uri = Uri.parse(s);
        startActivity(new Intent(Intent.ACTION_VIEW,uri));
    }
}
```

5. Result/Output:







Learning outcomes (What I have learnt):

- To design an android application which uses widget in android studio.
- Learnt about running application on android studio.
- Creating Application by Using Url.

Evaluation Grid (To be created per the faculty's SOP and Assessment guidelines):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day).		
2.	Post-Lab Quiz Result.		
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		
	Signature of Faculty (with Date):	Total Marks Obtained:	