**Practical 10th B:**

**Main Activity.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"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:gravity="center"

tools:context=".MainActivity">

<ImageView

android:layout\_width="500dp"

android:layout\_height="500dp"

android:id="@+id/image\_view"

/>

</LinearLayout>

**Main Activity.kt**

package com.example.prac10b

import android.graphics.Bitmap

import android.graphics.BitmapFactory

import android.os.AsyncTask

import androidx.appcompat.app.AppCompatActivity

import android.os.Bundle

import android.util.Log

import android.widget.ImageView

import java.net.URL

class MainActivity : AppCompatActivity() {

private lateinit var imageView: ImageView

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

setContentView(R.layout.activity\_main)

imageView =findViewById(R.id.image\_view)

DownloadImageTask().execute("https://scx2.b-cdn.net/gfx/news/hires/2015/whatsimporta.jpg")

}

inner class DownloadImageTask:AsyncTask<String, Void, Bitmap>(){

override fun doInBackground(vararg urls: String?): Bitmap? {

val url= urls[0]

var bitmap: Bitmap?=null

try {

val inputStream=URL(url).openStream()

bitmap=BitmapFactory.decodeStream(inputStream)

}catch (e: Exception){

Log.e("Error",e.message?:"Unknown error")

e.printStackTrace()

}

return bitmap

}

override fun onPostExecute(result: Bitmap?) {

if (result!=null){

imageView.setImageBitmap(result)

}

}

}

}

**Manifest.xml**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools">

<uses-permission android:name="android.permission.INTERNET"/>

<uses-permission android:name="android.permission.WRITE\_EXTERNAL\_STORAGE"/>

<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:supportsRtl="true"

android:theme="@style/Theme.Prac10b"

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>