Task-3

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1.Demonstrate the usage of the following widgets in android and submit a report on the same,

* 1. WebView
  2. Checkbox
  3. AlertDialog

XML CODE:

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

<RelativeLayout 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">

<!-- WebView to display a webpage -->

<WebView

android:id="@+id/webView"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:layout\_above="@+id/checkbox"

android:layout\_alignParentTop="true"

/>

<!-- Checkbox to toggle a feature -->

<CheckBox

android:id="@+id/checkbox"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_centerHorizontal="true"

android:text="Enable Feature" />

</RelativeLayout>

Activity.java:

Screenshot:

package com.example.checkbox;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.webkit.WebSettings;

import android.webkit.WebView;

import android.webkit.WebViewClient;

import android.widget.CheckBox;

import android.widget.CompoundButton;

import android.app.AlertDialog;

import android.content.DialogInterface;

public class MainActivity extends AppCompatActivity {

private WebView webView;

private CheckBox checkBox;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

// Initialize WebView and Checkbox

webView = findViewById(R.id.webView);

checkBox = findViewById(R.id.checkbox);

// Configure the WebView

webView.setWebViewClient(new WebViewClient());

WebSettings webSettings = webView.getSettings();

webSettings.setJavaScriptEnabled(true);

webView.loadUrl("https://en.wikipedia.org/wiki/My\_Neighbor\_Totoro");

// Set up Checkbox listener

checkBox.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {

@Override

public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {

// Show AlertDialog when the checkbox is checked

if (isChecked) {

showAlertDialog();

}

}

}); // Added the missing closing parenthesis here

}

private void showAlertDialog() {

AlertDialog.Builder builder = new AlertDialog.Builder(this);

builder.setMessage("Checkbox is checked!");

builder.setPositiveButton("OK", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialog, int which) {

dialog.dismiss();

}

});

AlertDialog dialog = builder.create();

dialog.show();

    }

}

Screenshot:

