**Experiment 11**

**Q1:  
Code:  
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"

tools:context=".MainActivity"

android:orientation="vertical"

>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Selected CheckBoxes"

android:layout\_marginLeft="50dp"

android:layout\_marginTop="50dp"

android:textSize="60px"

/>

<CheckBox

android:id="@+id/ch1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="CheckBox 1"

android:layout\_marginLeft="50dp"

android:layout\_marginTop="50dp"

android:textSize="40px"

/>

<CheckBox

android:id="@+id/ch2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="CheckBox 2"

android:layout\_marginLeft="50dp"

android:layout\_marginTop="50dp"

android:textSize="40px"

/>

<CheckBox

android:id="@+id/ch3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="CheckBox 3"

android:layout\_marginLeft="50dp"

android:layout\_marginTop="50dp"

android:textSize="40px"

/>

<CheckBox

android:id="@+id/ch4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="CheckBox 4"

android:layout\_marginLeft="50dp"

android:layout\_marginTop="50dp"

android:textSize="40px"

/>

<CheckBox

android:id="@+id/ch5"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="CheckBox 5"

android:layout\_marginLeft="50dp"

android:layout\_marginTop="50dp"

android:textSize="40px"

/>

<Button

android:id="@+id/check"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Check"

android:layout\_marginLeft="50dp"

android:layout\_marginTop="50dp"

android:textSize="40px"

/>

</LinearLayout>

**JAVA:**

package com.example.experiment\_11;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.CheckBox;

import android.widget.Button;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

CheckBox ch1, ch2, ch3, ch4, ch5;

Button b;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

ch1 = findViewById(R.id.ch1);

ch2 = findViewById(R.id.ch2);

ch3 = findViewById(R.id.ch3);

ch4 = findViewById(R.id.ch4);

ch5 = findViewById(R.id.ch5);

b = findViewById(R.id.check);

b.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

StringBuilder selectedOptions = new StringBuilder();

if (ch1.isChecked()) {

selectedOptions.append("CheckBox 1\n");

}

if (ch2.isChecked()) {

selectedOptions.append("CheckBox 2\n");

}

if (ch3.isChecked()) {

selectedOptions.append("CheckBox 3\n");

}

if (ch4.isChecked()) {

selectedOptions.append("CheckBox 4\n");

}

if (ch5.isChecked()) {

selectedOptions.append("CheckBox 5\n");

}

if (selectedOptions.length() > 0) {

Toast.makeText(getApplicationContext(), selectedOptions.toString().trim(), Toast.LENGTH\_SHORT).show();

} else {

Toast.makeText(getApplicationContext(), "No checkboxes selected", Toast.LENGTH\_SHORT).show();

}

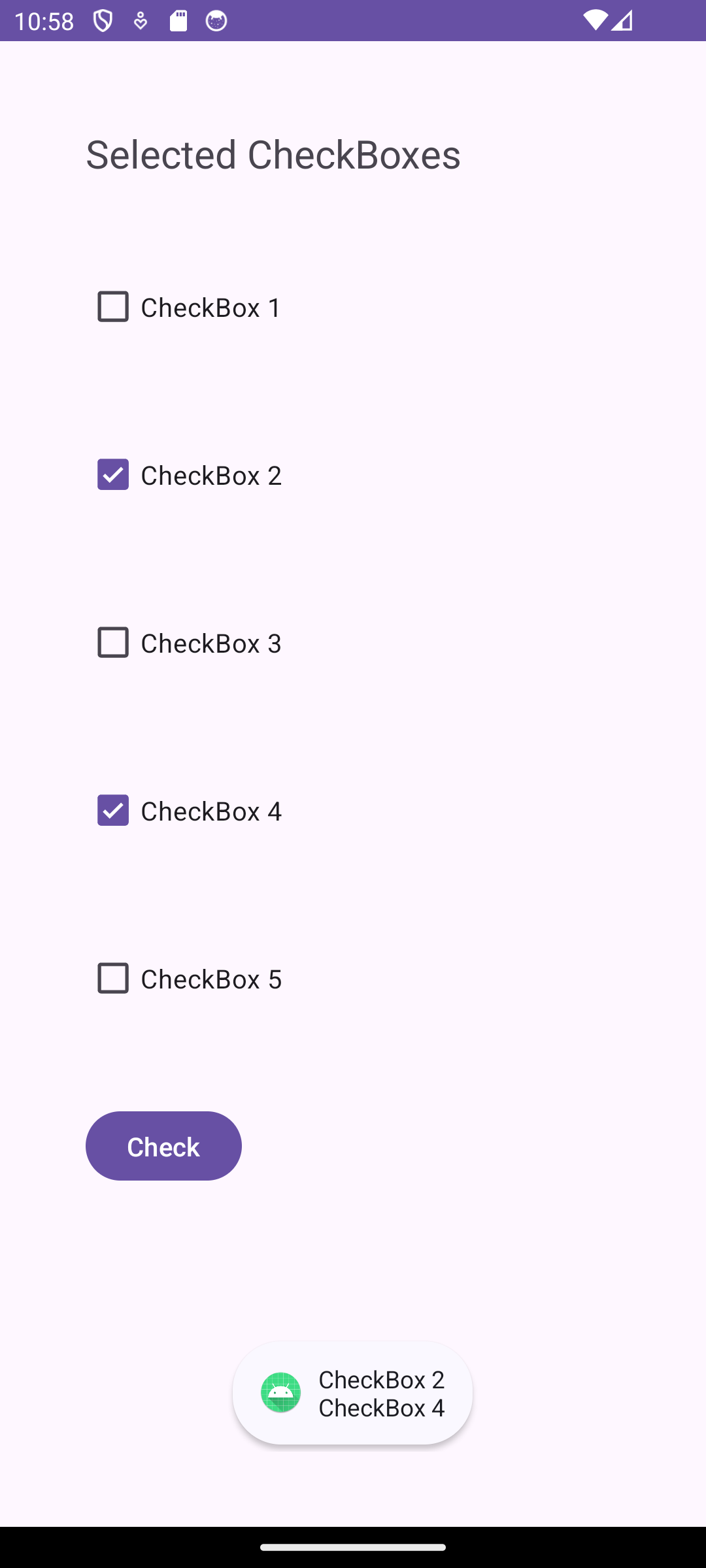
}

});

}

}

**Output:**

****