



# **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

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## **Experiment-2.2**

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**Subject Name: Mobile Application Development Lab**

**Subject Code: 20CSP-356**

### **1. Aim:**

Create an Android App using CheckBox.

### **2. Apparatus / Simulator Used:**

- Linux OS/ Windows 7 or above
- Android Studio
- Ram 4 GB and above
- Java (Including JDK & JRE)

### **3. Objective:**

- To understand the concept of Checkbox.
- To implement the CheckBox in Android Studio.
- To implement the RadioButton in Android Studio.
- To implement the RadioGroup in Android Studio.

## 4. Code:

### MainActivity.java

```
package com.example.checkbox;

import android.os.Bundle;
import android.view.View;
import android.widget.CheckBox;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    CheckBox ch, ch1, ch2, ch3;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        ch=(CheckBox)findViewById(R.id.checkBox);
        ch1=(CheckBox)findViewById(R.id.checkBox2);
        ch2=(CheckBox)findViewById(R.id.checkBox3);
        ch3=(CheckBox)findViewById(R.id.checkBox4);
    }

    public void Check(View v)
```

```
{  
    String msg="";  
  
    if(ch.isChecked())  
        msg = msg + " Subhadip ";  
    if(ch1.isChecked())  
        msg = msg + " Superman ";  
    if(ch2.isChecked())  
        msg = msg + " Batman ";  
    if(ch3.isChecked())  
        msg = msg + " Flash ";  
  
    Toast.makeText(this, "Your Heroes are"+ msg + ".",  
        Toast.LENGTH_LONG).show();  
}  
}
```

**activity\_main.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:background="#ffffff"  
    android:orientation="vertical"  
    tools:context="com.example.checkbox.MainActivity">  
  
    <TextView  
        android:id="@+id/textView"  
        android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"  
android:layout_marginEnd="8dp"  
android:layout_marginStart="8dp"  
android:layout_marginTop="48dp"  
android:text="Choose your Superhero:"  
android:textSize="24sp"  
app:layout_constraintEnd_toEndOf="parent"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

```
<CheckBox  
    android:id="@+id/checkBox"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="Subhadip"  
    android:layout_marginTop="16dp"  
    android:textSize="18sp" />
```

```
<CheckBox  
    android:id="@+id/checkBox2"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="Superman"  
    android:layout_marginTop="16dp"  
    android:textSize="18sp" />
```

```
<CheckBox  
    android:id="@+id/checkBox3"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="16dp"  
    android:text="Batman"
```

```
android:textSize="18sp"  
app:layout_constraintTop_toTopOf="@+id/textView"  
tools:layout_editor_absoluteX="382dp" />
```

```
<CheckBox
```

```
    android:id="@+id/checkBox4"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="Flash"  
    android:layout_marginTop="16dp"  
    android:textSize="18sp"  
    app:layout_constraintTop_toBottomOf="@+id/checkBox"  
    tools:layout_editor_absoluteX="386dp" />
```

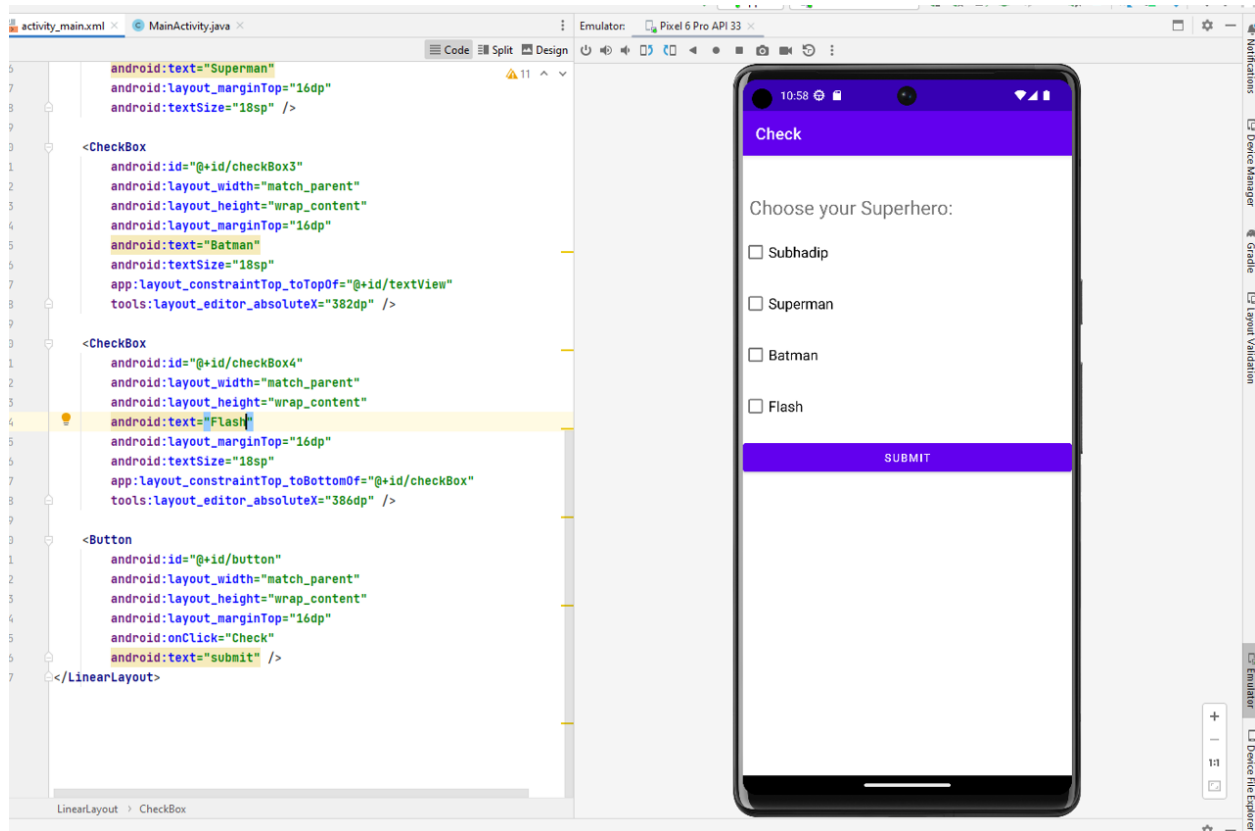
```
<Button
```

```
    android:id="@+id/button"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="16dp"  
    android:onClick="Check"  
    android:text="submit" />
```

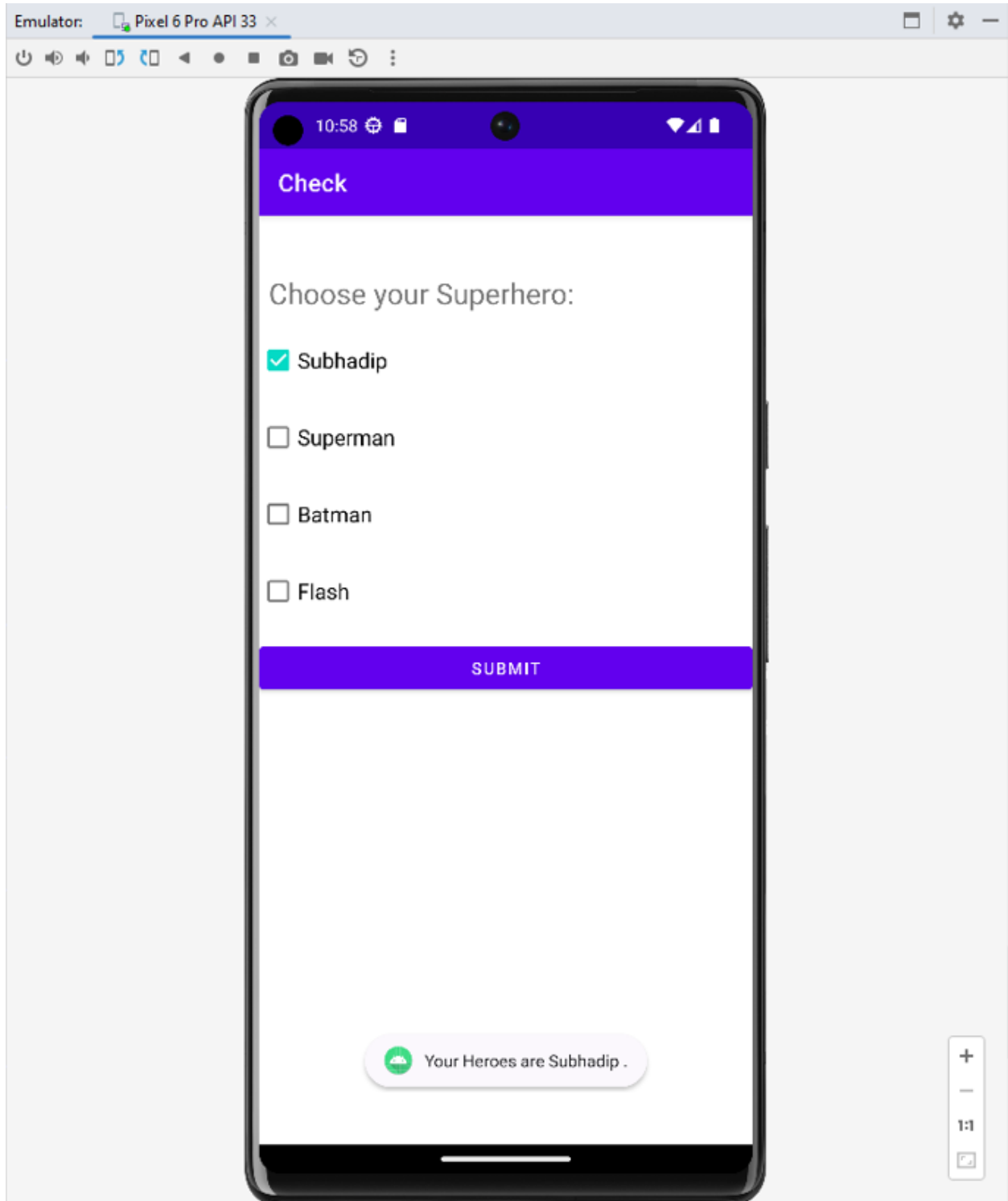
```
</LinearLayout>
```

## 5. Output:

### app overview



## Single checkbox selected



All checkbox selected

