Experiment 2.2

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Aim:

Create an Android Application by using the Checkboxes.

Objective:

Android CheckBox is a type of two state button either checked or unchecked.

There can be a lot of usage of checkboxes. For example, it can be used to know the hobby of the user, activate/deactivate the specific action etc.

Android CheckBox class is the subclass of CompoundButton class..

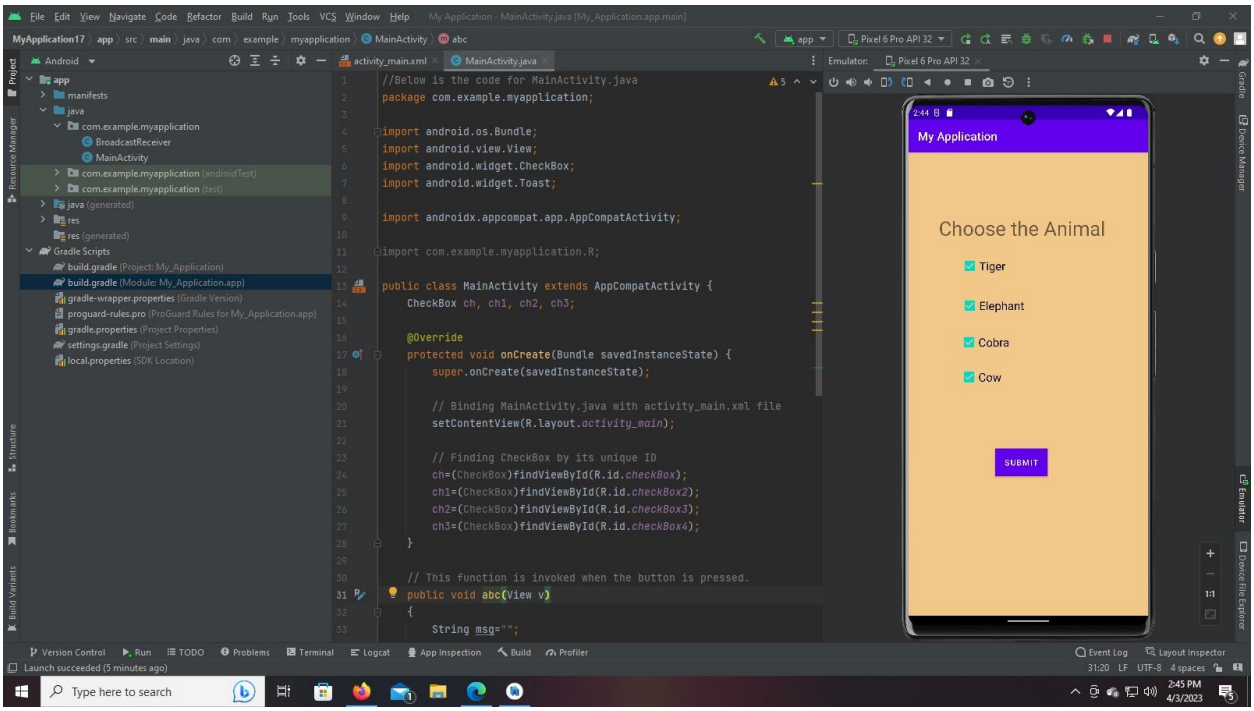
Code:

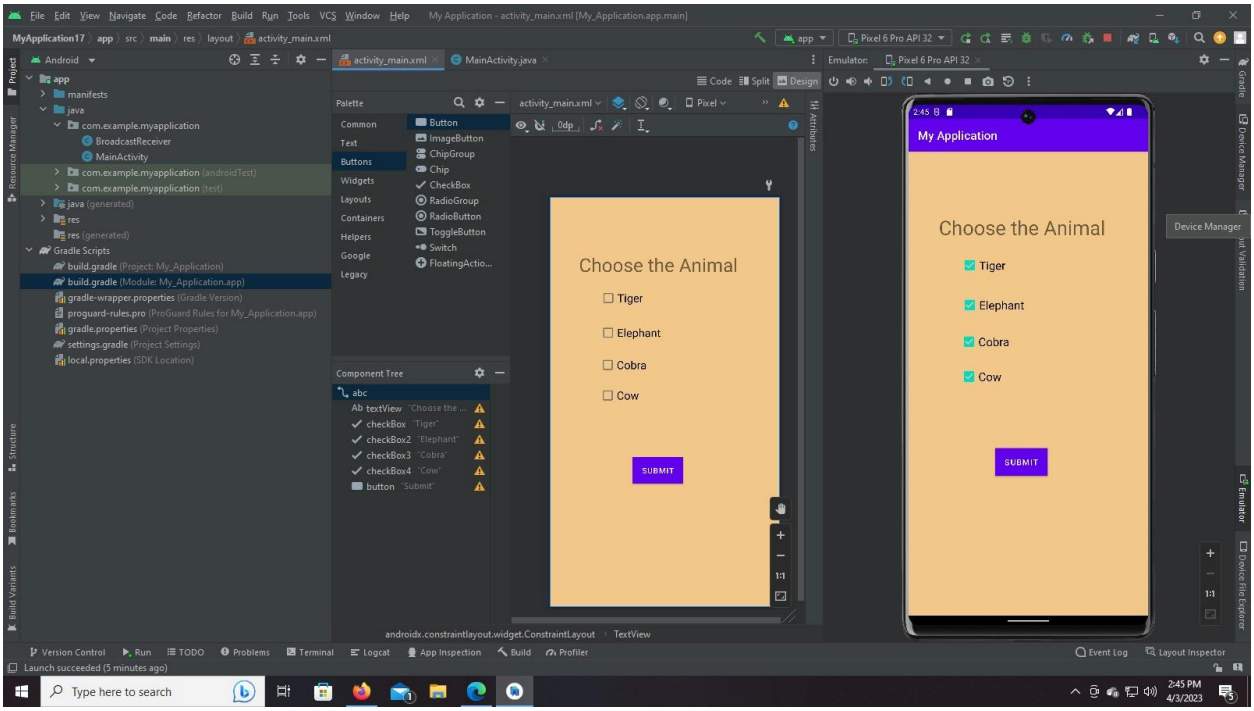
//Below is the code for MainActivity.java

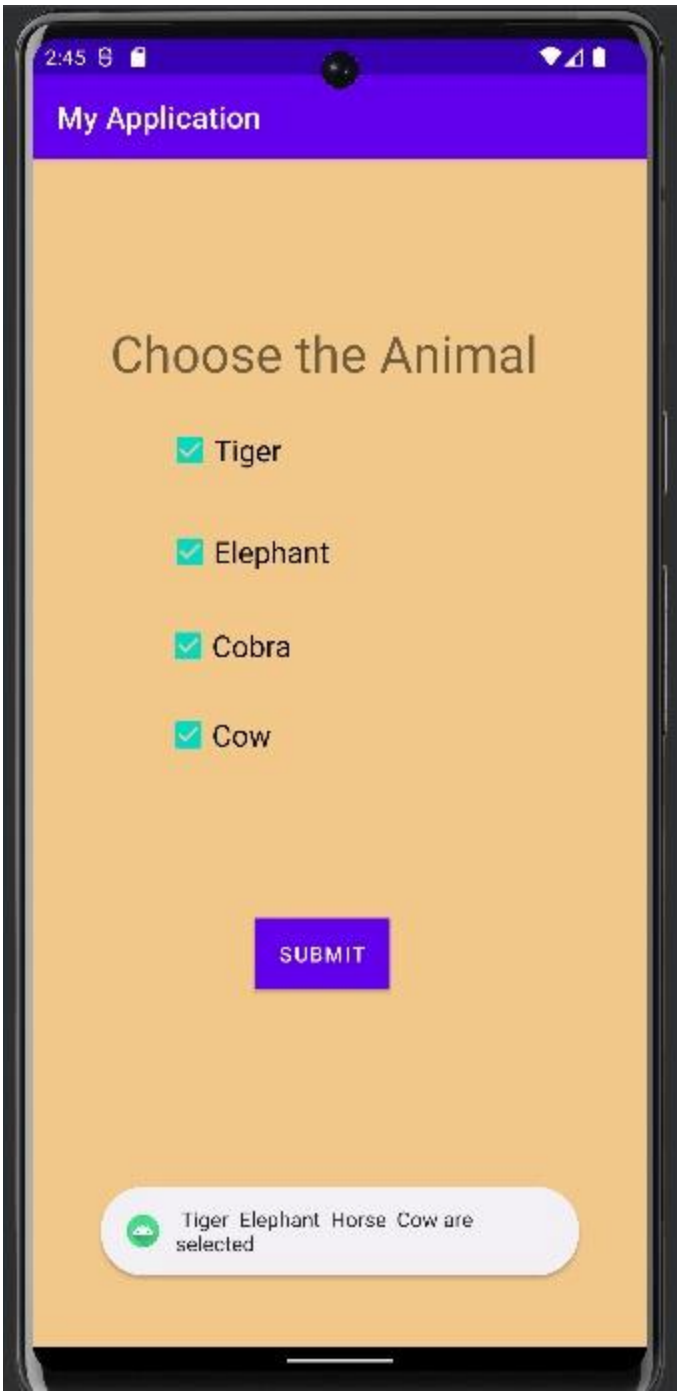
```
package com.application.myapplication;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.CheckBox;
import android.widget.Toast;

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

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

```
        // Binding MainActivity.java with activity_main.xml file
        setContentView(R.layout.activity_main);

        // Finding CheckBox by its unique ID
        ch=(CheckBox)findViewById(R.id.checkBox);
        ch1=(CheckBox)findViewById(R.id.checkBox2);
        ch2=(CheckBox)findViewById(R.id.checkBox3);
        ch3=(CheckBox)findViewById(R.id.checkBox4);
    }

    // This function is invoked when the button is pressed.
    public void Check(View v)
    {
        String msg="";

        // Concatenation of the checked options in if

        // isChecked() is used to check whether
        // the CheckBox is in true state or not.

        if(ch.isChecked())
            msg = msg + " Painting ";
        if(ch1.isChecked())
            msg = msg + " Reading ";
        if(ch2.isChecked())
            msg = msg + " Singing ";
        if(ch3.isChecked())
            msg = msg + " Cooking ";

        // Toast is created to display the
        // message using show() method.
        Toast.makeText(this, msg + "are selected",
                                Toast.LENGTH_LONG).show();
    }
}
```

Output:


//Below is the code for MainActivity.java
package com.example.myapplication;
import android.os.Bundle;
import android.view.View;
import android.widget.CheckBox;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import com.example.myapplication.R;
public class MainActivity extends AppCompatActivity {
CheckBox ch, ch1, ch2, ch3;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
// Binding MainActivity.java with activity_main.xml file
setContentView(R.layout.activity_main);
// Finding CheckBox by its unique ID
ch=(CheckBox)findViewById(R.id.checkBox);
ch1=(CheckBox)findViewById(R.id.checkBox2);
ch2=(CheckBox)findViewById(R.id.checkBox3);
ch3=(CheckBox)findViewById(R.id.checkBox4);
}
// This function is invoked when the button is pressed.
public void abc(View v)
{
String msg="";
My Application
Choose the Animal
Tiger
Elephant
Cobra
Cow
SUBMIT


My Application
Choose the Animal
Tiger
Elephant
Cobra
Cow
SUBMIT


2:45
My Application
Choose the Animal
Tiger
Elephant
Cobra
Cow
SUBMIT
Tiger Elephant Horse Cow are selected