



Experiment 7

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Aim:

Create an Android Application by using the Radio button.

Objective:

Android radio button is a widget that can have more than one option to choose from. The user can choose only one option at a time. Each option here refers to a radio button and all the options for the topic are together referred to as Radio Group. Hence, Radio Buttons are used inside a Radio Group.

Code:

//Below is the code for MainActivity.java

```
package com.example.myapplication;

import
android.os.Bundle;import
android.view.View;importandro
id.widget.Button;
import
android.widget.RadioButton;import
android.widget.RadioGroup;import
android.widget.Toast;

import

androidx.appcompat.app.AppCompatActivity;public clas

s MainActivity extends AppCompatActivity{

    //Define the object for Radio Group,
    // Submit and Clear
    buttons private RadioGroup radio
    Group;
```

```
Buttons.submit,clear;

@Override
protected void onCreate(Bundle savedInstanceState)
{
    super.onCreate(savedInstanceState); setContentView
    (R.layout.activity_main);

    //Bind the components to their respective objects
    //by assigning their IDs
    // with the help of findViewById()
    method.submit=(Button)findViewById(R.id.s
    ublicvoid submit;clear=(Button)findViewById(R.id.clea
    r);
    radioGroup=(RadioGroup)findViewById(R.id.groupradio);

    //Uncheck or reset the radio buttons initially
    radioGroup.clearCheck();

    // Add the Listener to the
    RadioGroup radioGroup.setOnCheckedChangeListener
    r(
        new RadioGroup
            .CheckedChangeListener() { @Override

                //The flow will come here when
                //any of the radio buttons in the radioGroup
                //has been clicked

                //Check which radio button has been clicked
                public void onCheckedChanged(RadioGroup group, in
                    tcheckedId)
                {

                    //Get the selected Radio Button Ra
                    dioButton
                    radioButton
                    =(RadioButton)group
                    .findViewById(checkedId);
                }
            });

    // Add the Listener to the Submit
    Buttons.submit.setOnClickListener(new View.OnClickListener()
    {

        @Override
        public void onClick(View v)
```

```

{

    //When submitbutton is clicked,
    //Get the Radio Button which is set
    //If no Radio Button is set, -1 will be returned
    int selectedId = radioGroup.getCheckedRadioButtonId();
    if (selectedId == -1) {
        Toast.makeText(MainActivity.this,
            "No answer has been selected",
            Toast.LENGTH_SHORT)
            .show();
    }
    else {

        RadioButton radioButton
            = (RadioButton) radioGroup
                .findViewById(selectedId);

        //Now display the value of selected item
        // by the Toast
        message Toast.makeText(MainActivity.this,
            radioButton.getText(),
            Toast.LENGTH_SHORT)
            .show();
    }
});

// Add the Listener to the Submit
Button.clear.setOnClickListener(new View.OnClickListener() {

    @Override
    public void onClick(View v) {

        //Clear Radio Group
        //i.e. reset all the Radio Buttons
        radioGroup.clearCheck();
    }
});
}
}

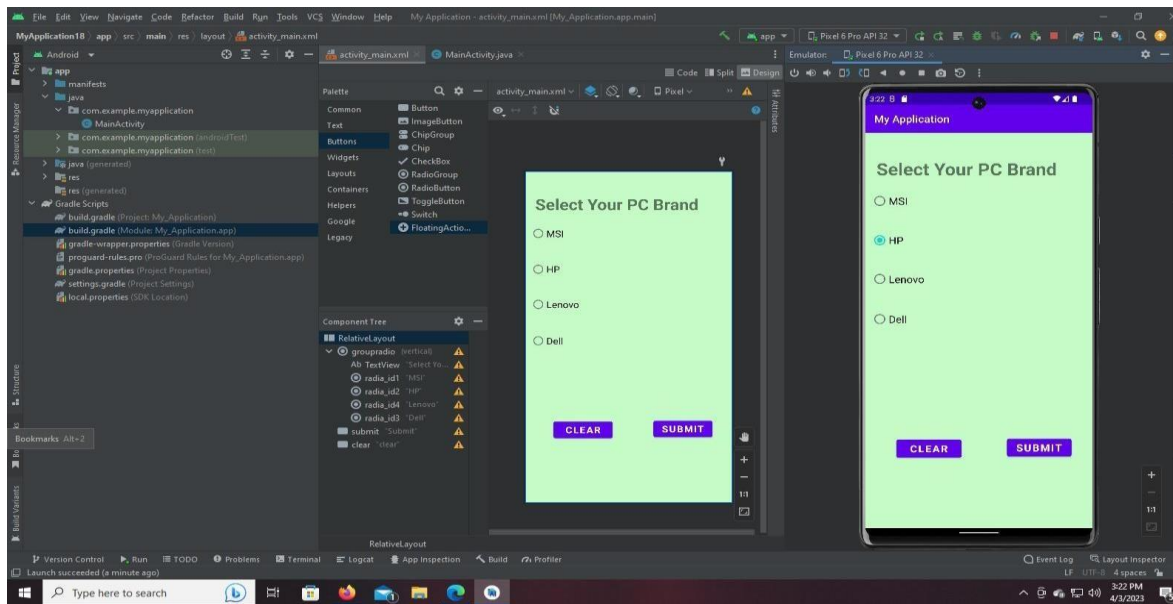
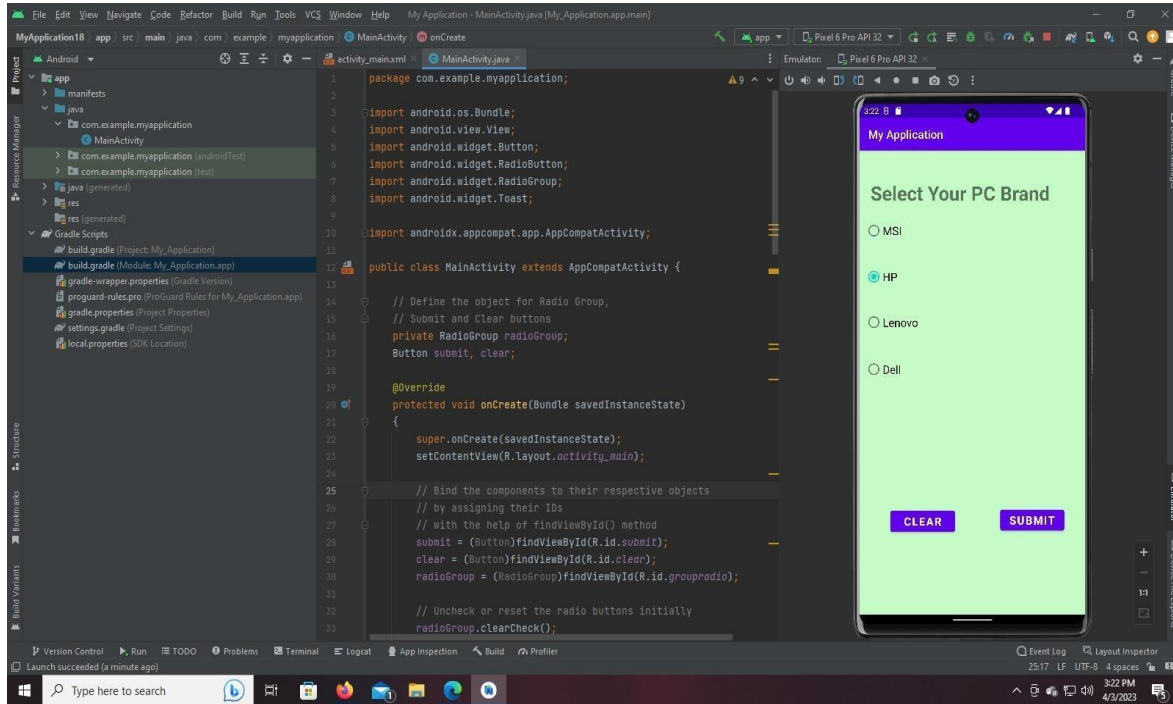
```

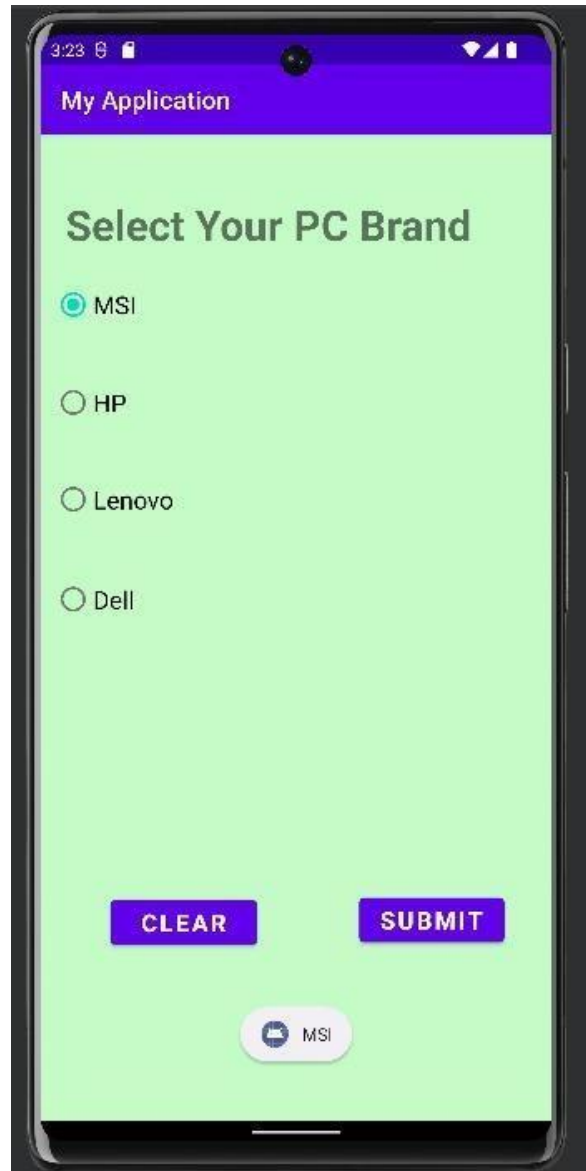
Output:



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The image shows a mobile application interface on a smartphone. The status bar at the top displays the time 9:23 and various icons. The app's title bar is purple and contains the text "My Application". The main content area has a light green background and is titled "Select Your PC Brand". It features four radio button options: "MSI" (which is selected), "HP", "Lenovo", and "Dell". At the bottom of the form, there are two purple buttons labeled "CLEAR" and "SUBMIT". Below these buttons is a white pill-shaped button containing a blue flag icon and the text "MSI".