



Experiment 2.3

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Semester: 6th
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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 RadioGroup.

Code:

//Below is the code for MainActivity.java

```
package com.example.myapplication;

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

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

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

Button 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.submit);

 clear = (Button)findViewById(R.id.clear);

 radioGroup = (RadioGroup)findViewById(R.id.groupradio);

 // Uncheck or reset the radio buttons initially

 radioGroup.clearCheck();

 // Add the Listener to the RadioGroup

 radioGroup.setOnCheckedChangeListener(

 new RadioGroup

 .OnCheckedChangeListener() {

 @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,
 int checkedId)

 {

 // Get the selected Radio Button

 RadioButton

 radioButton

 = (RadioButton)group

 .findViewById(checkedId);

 }

 });

 // Add the Listener to the Submit Button

 submit.setOnClickListener(new View.OnClickListener() {

 @Override

 public void onClick(View v)

```
{

    // When submit button is clicked,
    // Ge 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)
    {

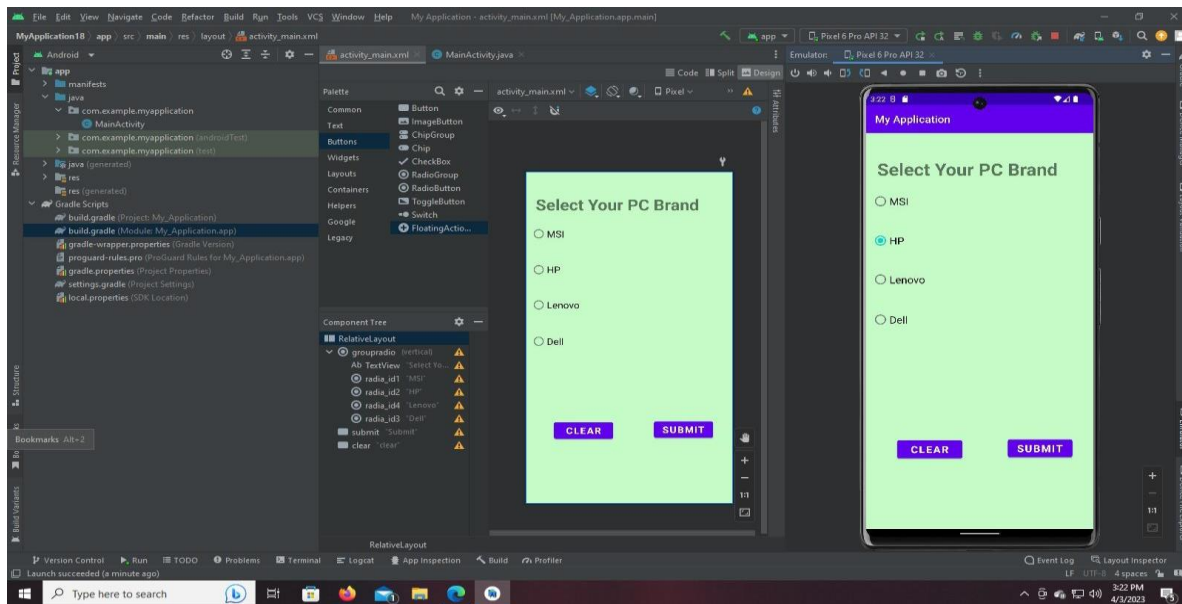
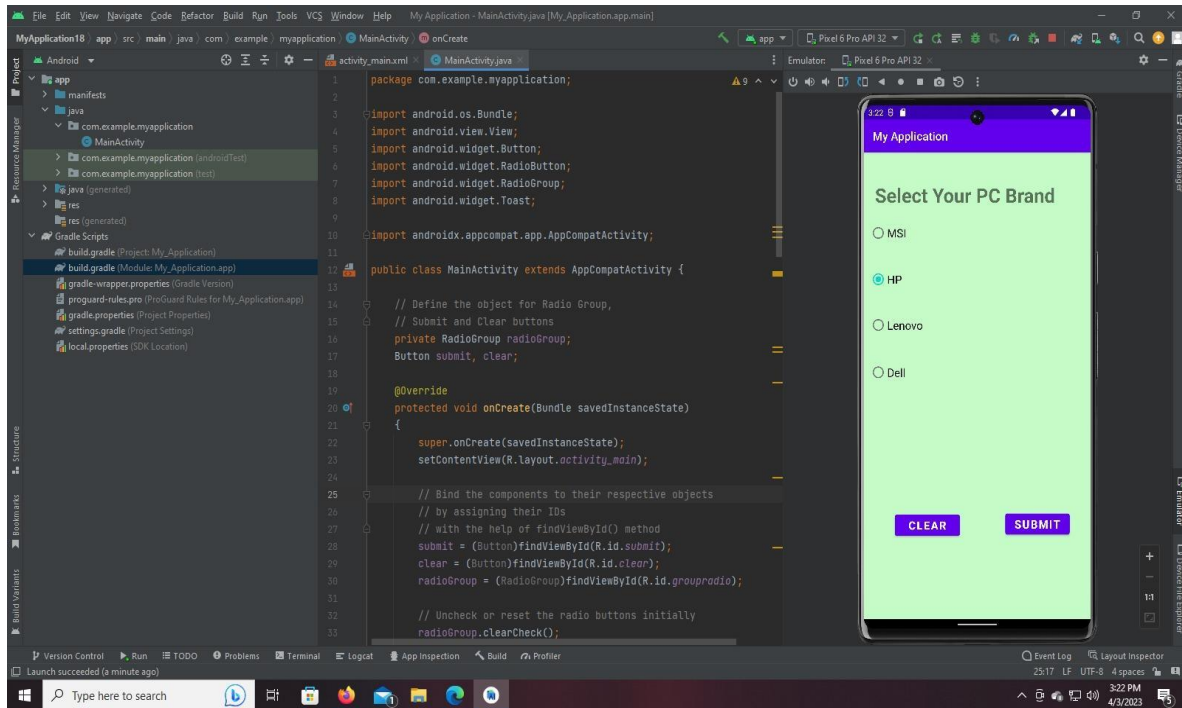
        // Clear RadioGroup
        // i.e. reset all the Radio Buttons
        radioGroup.clearCheck();
    }
});
}
```

Output:



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The image shows a mobile application interface on a smartphone. At the top, there is a purple header bar with the text "My Application". Below this, the main content area has a light green background. The title "Select Your PC Brand" is displayed in a bold, dark green font. Underneath the title, there are four radio button options: "MSI", "HP", "Lenovo", and "Dell". The "MSI" option is selected, indicated by a filled green circle. At the bottom of the screen, there are two purple buttons labeled "CLEAR" and "SUBMIT". Below these buttons, there is a white pill-shaped button with a green circular icon containing a laptop and the text "MSI".

My Application

Select Your PC Brand

☒ MSI

☐ HP

☐ Lenovo

☐ Dell

CLEAR SUBMIT

 MSI