

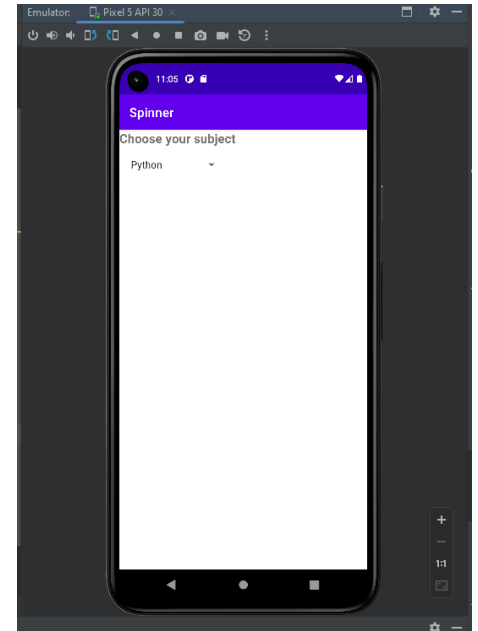
## SPINNER, RADIO BUTTON, CHECK BOX

### Spinner

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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="com.myapp.spinner.MainActivity">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Choose your subject"
        android:textStyle="bold"
        android:textSize="20sp"
        tools:ignore="MissingConstraints" />

    <Spinner
        android:id="@+id/spinner"
        android:layout_height="50dp"
        android:layout_width="160dp"
        android:layout_marginEnd="10dp"
        android:layout_marginStart="10dp"
        android:layout_marginBottom="10dp"
        android:layout_marginTop="30dp"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"/>
```



```
package com.myapp.spinner;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.Toast;
// Main Activity implements Adapter view
```

```
public class MainActivity extends AppCompatActivity implements
    AdapterView.OnItemClickListener {
    String[] country = { "DBMS", "Javascript", "C", "Python", "Android Development" };

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        //Getting the instance of Spinner and applying OnItemClickListener on it
        Spinner spin = (Spinner) findViewById(R.id.spinner);
        spin.setOnItemClickListener(this);
    }
}
```

```

//Creating the ArrayAdapter instance having the country list
ArrayAdapter aa = new ArrayAdapter(this,android.R.layout.simple_spinner_item,country);
aa.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
//Setting the ArrayAdapter data on the Spinner
spin.setAdapter(aa);

}
@Override
public void onItemSelected(AdapterView<?> arg0, View arg1, int position, long id) {
    Toast.makeText(getApplicationContext(),country[position] , Toast.LENGTH_LONG).show();
}
@Override
public void onNothingSelected(AdapterView<?> arg0) {
    // TODO Auto-generated method stub
}
}

```

## **RADIO BUTTON**

### **JAVA**

```

package com.myapplication.radiobuttonapp;

import androidx.appcompat.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    private RadioGroup radioGroup;
    Button submit, clear;

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

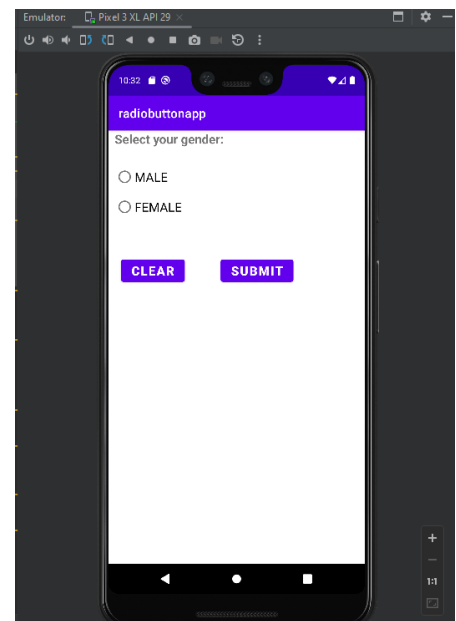
        submit = (Button)findViewById(R.id.submit);
        clear = (Button)findViewById(R.id.clear);
        radioGroup = (RadioGroup)findViewById(R.id.groupradio);

        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);
        }
    });

    submit.setOnClickListener(new View.OnClickListener() {

        @Override
        public void onClick(View v)
        {

            // When submit button 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();
            }
        }
    });

    clear.setOnClickListener(new View.OnClickListener() {

        @Override
        public void onClick(View v)
        {

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

```

```
});

}
}
```

## XML

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    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="com.myapplication.radiobuttonapp.MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select your gender:"
        android:textStyle="bold"
        android:layout_marginLeft="10dp"
        android:textSize="20sp"/>

    <!-- add RadioGroup which contain the many RadioButton-->
    <RadioGroup
        android:layout_marginTop="50dp"
        android:id="@+id/groupradio"
        android:layout_marginLeft="10dp"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content">

        <!-- In RadioGroup create the 1 Radio Button-->
        <!-- like this we will add some more Radio Button-->
        <RadioButton
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:id="@+id/radia_id1"
            android:text="MALE"
            android:textSize="20sp"/>

        <RadioButton
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:id="@+id/radia_id2"
            android:text="FEMALE"
            android:textSize="20sp"/>

    </RadioGroup>

    <!-- add button For Submit the Selected item-->
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Submit"
```

```

        android:id="@+id/submit"
        android:textStyle="bold"
        android:textSize="20sp"
        android:layout_marginTop="200dp"
        android:layout_marginLeft="180dp"
    />

    <!-- add clear button for clear the selected item-->
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Clear"
        android:id="@+id/clear"
        android:textSize="20sp"
        android:textStyle="bold"
        android:layout_marginTop="200dp"
        android:layout_marginLeft="20dp"
    />
</RelativeLayout>

```

## **CHECKBOX**

### **JAVA**

```

package com.myapplication.checkbox;

import androidx.appcompat.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);

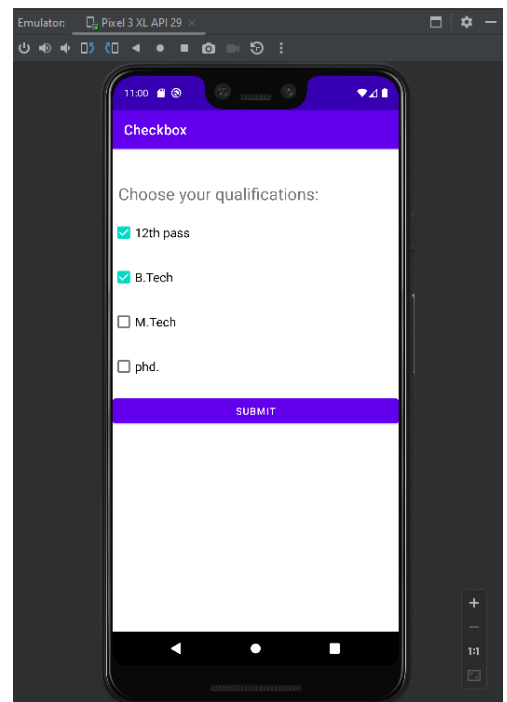
        // Binding MainActivity.java with activity_main.xml file
        setContentView(R.layout.activity_main);

        // 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();
}
}

```

## **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.myapplication.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 qualifications:"
        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="12th pass"
        android:layout_marginTop="16dp"
        android:textSize="18sp" />

    <CheckBox
        android:id="@+id/checkbox2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

```

```
android:text="B.Tech"
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="M.Tech"
    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="phd."
    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>
```