Lab Manual

Lab (5): List View

# Visual Programming for Smart Devices lab

Instructor: Oraib M Alrashdan

### ❖ Objectives:

create an android application using List View.

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## Task 1: Try IT An application using List View .java
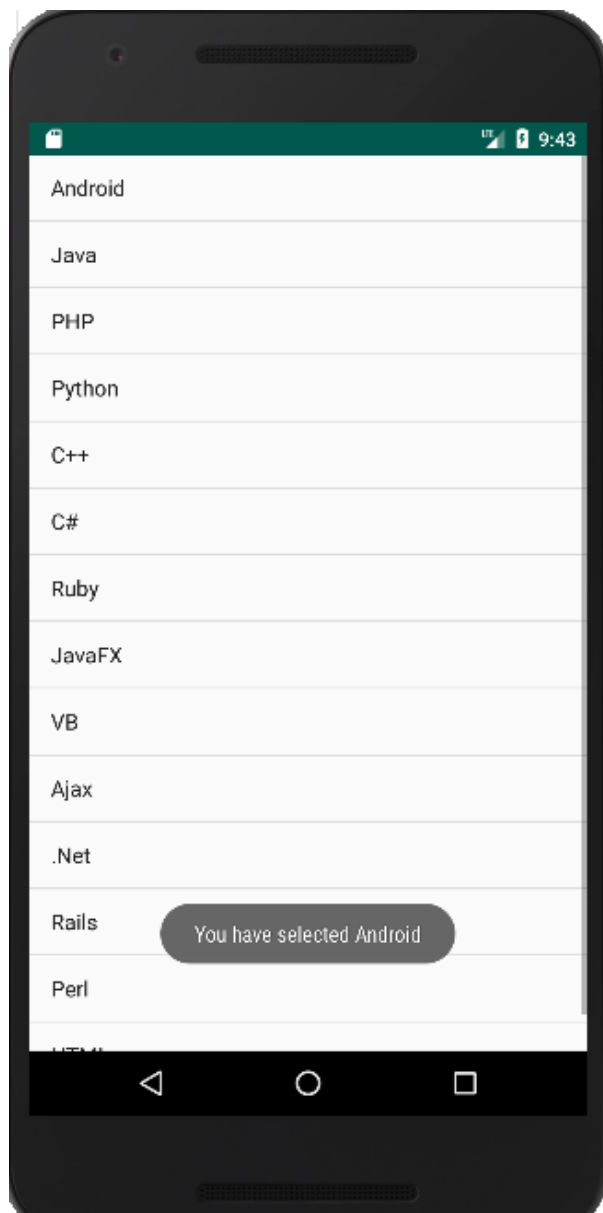## Write this code then show the output.

```java
package com.example.oraibpc.listview;

import android.app.ListActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.ListView;
import android.widget.ArrayAdapter;
import android.widget.Toast;

public class MainActivity extends ListActivity {
String []
array_technology={"Android","Java","PHP","Python","C++","C#","Ruby","JavaFX","V
B","Ajax",".Net","Rails","Perl","HTML"};
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        //called when the activity is first created.
        setListAdapter(new
ArrayAdapter<String>(this,android.R.layout.simple_list_item_1,array_technology)
);

    }
    public void onListItemClick(ListView parent ,View v,int postion,long id)
    {
        Toast.makeText(this,"You have
selected"+array_technology[postion],Toast.LENGTH_SHORT).show();
    }
}
```

## Note: Click an item. A message containing the item selected is displayed.

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**Task 2: Try It who to allow multiple items in the List view to be selected and how to enable filtering support.**
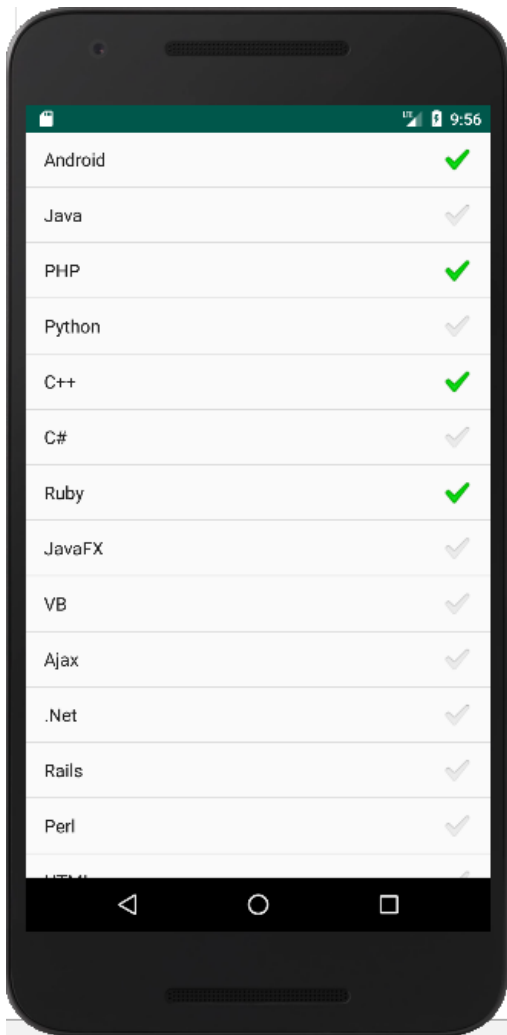
```java
package com.example.oraibpc.listview;

import android.app.ListActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.ListView;
import android.widget.ArrayAdapter;
import android.widget.Toast;

public class MainActivity extends ListActivity {
String []
array_technology={"Android","Java","PHP","Python","C++","C#","Ruby","JavaFX","VB","Ajax",".Net","Rails","Perl","HTML"};
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        ListView listView = getListView();

listView.setChoiceMode(ListView.CHOICE_MODE_MULTIPLE);
        listView.setTextFilterEnabled(true);
        setListAdapter(new
ArrayAdapter<String>(this,android.R.layout.simple_list_item
_checked,array_technology));

    }
    public void onListItemClick(ListView parent ,View v,int postion,long id)
    {
        Toast.makeText(this,"You have selected
"+array_technology[postion],Toast.LENGTH_SHORT).show();
    }
}
```

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## Task 3: using your application created earlier, add the following

## Strings.xml file located in the res/values folder:

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="hello"> Hello World ,List View Activity ! </string>
    <string name="app_name">List View </string>
    <string-array name="array_technology">
        <item>Android</item>
        <item>Java</item>
        <item>PHP</item>
        <item>Python</item>
        <item>C++</item>
        <item>C#</item>
        <item>Ruby</item>
        <item>JavaFX</item>
        <item>VB</item>
        <item>Ajax</item>
        <item>.Net</item>
        <item>Rails</item>
        <item>Perl</item>
        <item>HTML</item>
    </string-array>
</resources>
```

## Modify the main Avtivity.java file as shown below:

```java
package com.example.oraibpc.listview;

import android.app.ListActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.ListView;
import android.widget.ArrayAdapter;
import android.widget.Toast;

public class MainActivity extends ListActivity {
String [] array_technology;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        ListView listView = getListView();
        listView.setChoiceMode(ListView.CHOICE_MODE_MULTIPLE);
        listView.setTextFilterEnabled(true);
         array_technology =
getResources().getStringArray(R.array.array_technology);
         setListAdapter(new
ArrayAdapter<String>(this,android.R.layout.simple_list_item_check
ed,array_technology));

    }
    public void onListItemClick(ListView parent ,View v,int postion,long id)
    {
        Toast.makeText(this,"You have selected
"+array_technology[postion],Toast.LENGTH_SHORT).show();
    }
}
```