Practical 14

1. Write a Program to display the following output.

```
Xml Code:
```

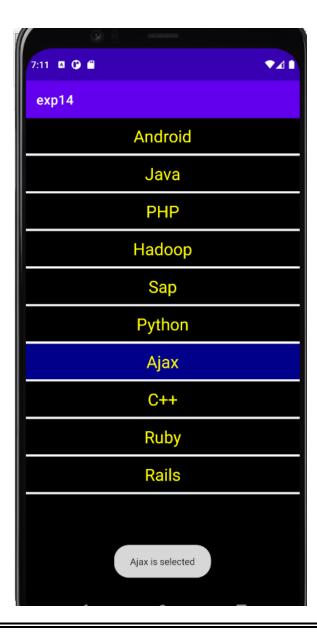
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity"
  android:gravity="center"
  android:orientation="vertical"
  android:background="@color/black"
  <ListView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/list1"
    android:divider="@color/white"
    android:dividerHeight="3dp"
    android:listSelector="#00008B"
</LinearLayout>
Activity_listview.xml Code :
<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
  android:id="@+id/txtview"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:layout_gravity="center"
  android:gravity="center"
  android:padding="10dp"
  android:textSize="25dp"
  android:textColor="#FFFF00"
</TextView>
Java Code:
package com.example.exp14;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
```

import android.widget.TextView; import android.widget.Toast;

```
Name: Aditya Choudhary
                                                                              MAD Experiments
                                            Roll no : 19406
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    final String[] items =
{"Android", "Java", "PHP", "Hadoop", "Sap", "Python", "Ajax", "C++", "Ruby", "Rails"};
    ArrayAdapter arrayAdapter = new ArrayAdapter < String > (this,R.layout.activity_listview,items);
    ListView 11 = (ListView) findViewById(R.id.list1);
    11.setAdapter(arrayAdapter);
    11.setOnItemClickListener(new AdapterView.OnItemClickListener() {
       @Override
       public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
         Toast.makeText(getApplicationContext(), ((TextView)view).getText() + " is selected",
Toast.LENGTH_LONG).show();
     });
  }
```

Output:





Name: Aditya Choudhary Roll no: 19406 MAD Experiments

2. Write a Program to create a Grid View and display the name of different phones and operating system and toast selected Phone.

Xml Code:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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=".MainActivity2"
  android:orientation="vertical">
  <GridView
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:id="@+id/gview"
    android:padding="10dp"
    android:numColumns="3"
    android:listSelector="@color/purple_200"
    android:horizontalSpacing="10sp"
    android:verticalSpacing="10sp"
    android:layout_marginTop="30dp"/>
</LinearLayout>
Activity_grid_view.xml Code:
<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
  android:layout_width="match_parent"
  android:layout height="match parent"
  android:id="@+id/tview"
  android:fontFamily="casual"
  android:gravity="center"
  android:padding="10dp"
  android:textSize="20dp"
  android:textStyle="italic|bold"
  android:textColor="@color/black"
  android:background="@drawable/bg"
</TextView>
Java Code:
package com.example.exp14;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
```

import android.widget.GridView; import android.widget.TextView; import android.widget.Toast;

```
Name: Aditya Choudhary
                                                                             MAD Experiments
                                            Roll no : 19406
public class MainActivity2 extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2);
    final String[] OS =
{"Adnroid", "Windows", "Samsung", "Nokia", "Linux", "Ubuntu", "Apple", "Xiaomi", "Realme"};
    ArrayAdapter arrayAdapter = new ArrayAdapter < String > (this, R.layout.activity_grid_view, OS);
    GridView gv = (GridView) findViewById(R.id.gview);
    gv.setAdapter(arrayAdapter);
    gv.setOnItemClickListener(new AdapterView.OnItemClickListener() {
       @Override
      public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
         Toast.makeText(getApplicationContext(),((TextView)view).getText() + " is
selected",Toast.LENGTH_LONG).show();
       }});
  }}
```

Output:

