5. Develop an application that uses ArrayAdapter with ListView.

Mainactivity.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Courses"
        android:id="@+id/tv1"/>

    <ListView
        xmlns:android="http://schemas.android.com/apk/res/android"
        xmlns:tools="http://schemas.android.com/tools"
        android:id="@+id/lv1"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        tools:context=".MainActivity"
        android:layout_marginTop="50dp">
    </ListView>

</android.support.constraint.ConstraintLayout>
```

Mainactivity.java

```java
package com.example.sjcet.arrayadapterlistview;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.TextView;
```

```java
public class MainActivity extends AppCompatActivity {

    TextView tv1;
    ListView lv1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);


        tv1=(TextView)findViewById(R.id.tv1);


        lv1=(ListView)findViewById(R.id.lv1);// display(welcom changing to admin)
// listview operation
        String[] courses={"MCA","MBA","BBA","BCA"};
        ArrayAdapter adapter = new
            ArrayAdapter(this,android.R.layout.simple_list_item_1,courses);
        lv1.setAdapter(adapter);


    }
}
```
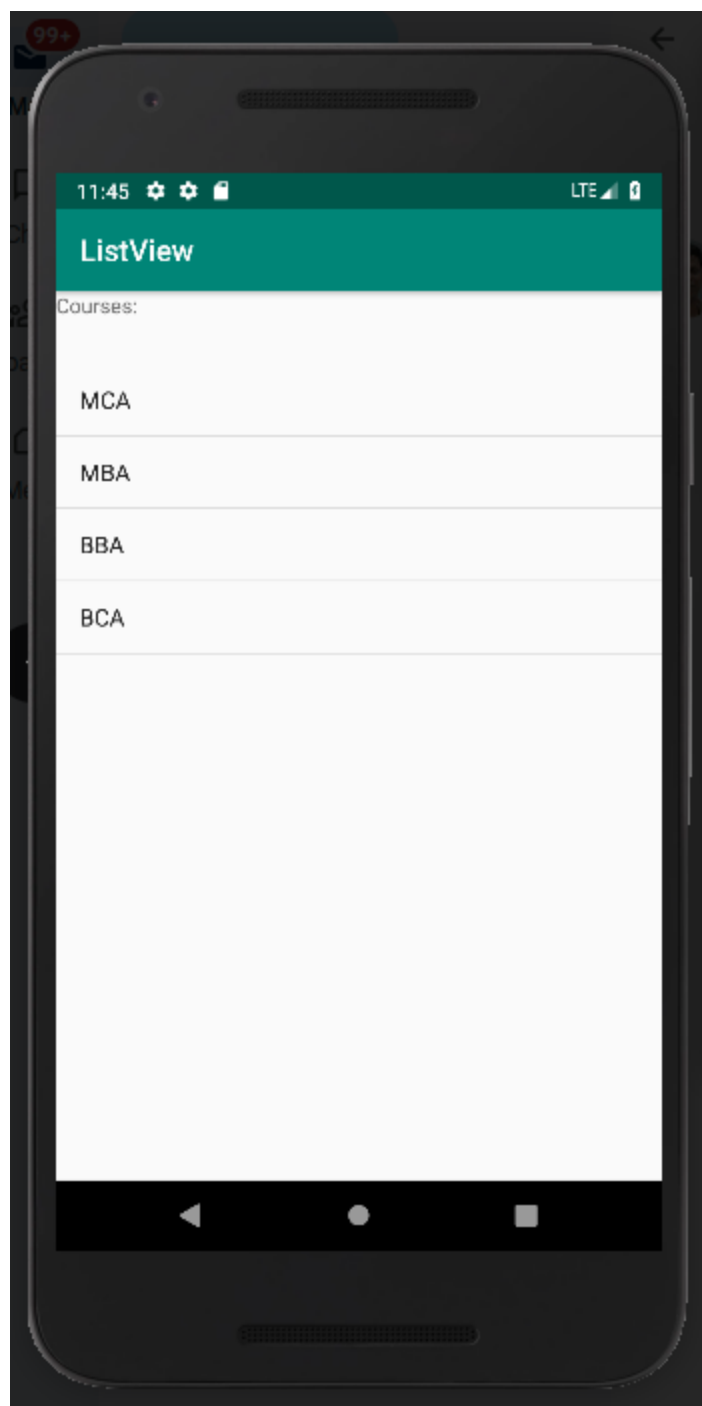
ListView

Courses:

MCA

MBA

BBA

BCA

4.Implement Options Menu to navigate to activities

Mainactivity.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</android.support.constraint.ConstraintLayout>
```

Maianctivity.java

```java
package com.example.sjcet.optionmenu;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

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


    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.main_menu, menu);
        return true;
```

```java
        }

        @Override
        public boolean onOptionsItemSelected(MenuItem item) {
            switch (item.getItemId()){
                case R.id.emergency: // full colon
                    Toast.makeText(this," Emergency clicked",Toast.LENGTH_SHORT).show();
                    break;
                case R.id.profile:
                    Toast.makeText(this," Profile clicked",Toast.LENGTH_SHORT).show();
                    break;
                case R.id.aboutus:
                    Toast.makeText(this," About us clicked",Toast.LENGTH_SHORT).show();
                    break;
                case R.id.signout:
                    Toast.makeText(this," Signout clicked",Toast.LENGTH_SHORT).show();
                    break;
            }
            return super.onOptionsItemSelected(item);
        }
    }
```

menu.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:id="@+id/emergency"
        android:title="Emergency clicked"/>
    <item
        android:id="@+id/profile"
        android:title="Profile clicked"/>
    <item
    android:id="@+id/aboutus"
    android:title="About us clicked"/>
    <item
        android:id="@+id/signout"
        android:title="Signout clicked"/>
</menu>
```