PROGRAM 10:

Develop an application that uses ArrayAdapter with ListView

CODE:

activity_main.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_height="match_parent"
    android:layout_width="match_parent">
    <ListView
        android:id="@+id/list"
        android:layout_width="match_parent"
        android:layout_height="match_parent"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java:

```java
package com.example.arrayadapter;

import  androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle; import android.view.View;

import android.widget.ListView;

import android.widget.AdapterView;

import android.widget.ArrayAdapter; import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    ListView        l;

    String tutorials[]

            = {  "Algorithms",  "Data  Structures",

            "Languages","dbms","java","python"};

    protected void onCreate(Bundle savedInstanceState) {
```

```java
super.onCreate(savedInstanceState);

setContentView(R.layout.activity_mai

n); l = findViewById(R.id.list);

final ArrayAdapter<String> arr;

arr = new ArrayAdapter<String>(this, android.R.layout.simple_list_item_1, tutorials);

l.setAdapter(arr);

l.setOnItemClickListener(new AdapterView.OnItemClickListener() {

public void onItemClick(AdapterView<?> adapterView, View view, int position, long id) {

String value = arr.getItem(position);

Toast.makeText(getApplicationContext(), value, Toast.LENGTH_SHORT).show();

} }); }}
```

OUTPUT: