

Program no: 10

Aim: Implement Adapters and perform exception handling

XML Code:

```
<?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=".MainActivity">

    <ListView android:layout_width="409dp"
        android:layout_height="354dp"
        tools:layout_editor_absoluteX="1dp"
        tools:layout_editor_absoluteY="1dp"
        android:id="@+id/list1"/>

</androidx.constraintlayout.widget.ConstraintLayout>
```

Java Code:

```
package com.example.myadapter;

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.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

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

public class MainActivity extends AppCompatActivity implements
AdapterView.OnItemClickListener {

    ListView l1;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        String[] cars = {"BMW", "BENZ", "AUDI"};

        try {

            ArrayAdapter<String> adapter = new ArrayAdapter<String>(this,
            R.layout.support_simple_spinner_dropdown_item, cars);

            l1.setAdapter(adapter);

            l1.setOnItemClickListener(this);

        }

        catch (Exception e)

        {

            Toast.makeText(this,e.getMessage(),Toast.LENGTH_SHORT).show();

        }

    }

    @Override

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

        TextView tem=(TextView) view;

```

```
    Toast.makeText(this, tem.getText(), Toast.LENGTH_LONG).show();  
}
```

Output:

