

Ethan Williams ▼

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Ethan Williams

Fiona Davis

George Wilson

Hannah Moore

Ian Taylor

Julia Anderson

Kevin Thomas

Lily Jackson

Mark White



Nina Harris

Oscar Martin

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12:59



## Student Information

Full Name: Kevin Thomas

Age: 17

Date of Birth: 11/11/2000

Date of Birth: 14 May 2008  
Educational Level: 7



Close



1:1



```
package com.example.studentmanagementapp;
```

```
import java.util.Date;
```

```
public class Student {  
    private String firstName;
```

```
private String lastName;
private Date dateOfBirth;
private int educationalLevel;

// Constructor
public Student(String firstName, String lastName, Date dateOfBirth,
int educationalLevel) {
    this.firstName = firstName;
    this.lastName = lastName;
    this.dateOfBirth = dateOfBirth;
    this.educationalLevel = educationalLevel;
}

// Utility method to get full name
public String getFullName() {
    return firstName + " " + lastName;
}

// utility method to get age
public int getAge() {
    Date now = new Date();
    int age = now.getYear() - dateOfBirth.getYear();
    if (now.getMonth() < dateOfBirth.getMonth() ||
        (now.getMonth() == dateOfBirth.getMonth() && now.getDate() <
dateOfBirth.getDate())) {
        age--;
    }
    return age;
}

// Override toString for easy display
@Override
public String toString() {
```

```

        return "Student{" +
            "firstName='" + firstName + '\'' +
            ", lastName='" + lastName + '\'' +
            ", dateOfBirth=" + dateOfBirth +
            ", educationalLevel=" + educationalLevel +
            '}';
    }

    // Getters and Setters
    public String getFirstName() {
        return firstName;
    }

    public void setFirstName(String firstName) {
        this.firstName = firstName;
    }

    public String getLastName() {
        return lastName;
    }

    public void setLastName(String lastName) {
        this.lastName = lastName;
    }

    public Date getDateOfBirth() {
        return dateOfBirth;
    }

    public void setDateOfBirth(Date dateOfBirth) {
        if (dateOfBirth.after(new Date())) {
            throw new IllegalArgumentException("Date of birth cannot be
in the future.");
        }

        // date have to be in a reasonable range (calculated from
current date)
        if (dateOfBirth.before(new Date(new Date().getTime() - new
Date(100, 0, 0).getTime())))) {

```

```

        throw new IllegalArgumentException("Date of birth is too far
in the past.");
    }
    this.dateOfBirth = dateOfBirth;
}
public int getEducationalLevel() {
    return educationalLevel;
}
public void setEducationalLevel(int educationalLevel) {
    if (educationalLevel < 1 || educationalLevel > 12) {
        throw new IllegalArgumentException("Educational level must
be between 1 and 12.");
    }
    this.educationalLevel = educationalLevel;
}
}

```

```

package com.example.studentmanagementapp;

import android.os.Bundle;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.Spinner;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

import java.text.ParseException;
import java.text.SimpleDateFormat;

```



```
import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {

    private Spinner studentSpinner;
    private Button showButton;
    private ArrayList<Student> studentsList;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        addBoilerplateCode();

        studentSpinner = findViewById(R.id.spinner);
        showButton = findViewById(R.id.button);

        // Create fake data
        studentsList = createFakeStudents();

        // Populate spinner with student names
        ArrayAdapter<String> adapter = new ArrayAdapter<>(
            this,
            android.R.layout.simple_spinner_item,
            getStudentNames(studentsList)
        );

        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        studentSpinner.setAdapter(adapter);

        // Button click shows selected student's info
        showButton.setOnClickListener(v -> {
            int pos = studentSpinner.getSelectedItemPosition();
```

```

        if (pos >= 0) {
            Student selected = studentsList.get(pos);

            SimpleDateFormat fmt = new SimpleDateFormat("dd MMM
yyyy");

            String message = "Full Name: " + selected.getFullName()
+
                "\nAge: " + selected.getAge() +
                "\nDate of Birth: " +
fmt.format(selected.getDateOfBirth()) +
                "\nEducational Level: " +
selected.getEducationalLevel();

            new AlertDialog.Builder(MainActivity.this)
                .setTitle("Student Information")
                .setMessage(message)
                .setPositiveButton("Close", (dialog, which) ->
dialog.dismiss())
                .setCancelable(true)
                .show();
        }
    });
}

// Creates 15 fake students
private ArrayList<Student> createFakeStudents() {
    ArrayList<Student> list = new ArrayList<>();
    SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");

    try {
        list.add(new Student("Alice", "Johnson", sdf.parse("2010-03-
15"), 5));
    }
}

```

```
        list.add(new Student("Bob", "Smith", sdf.parse("2009-07-21"), 6));
        list.add(new Student("Charlie", "Brown", sdf.parse("2011-01-10"), 4));
        list.add(new Student("Diana", "Miller", sdf.parse("2008-11-05"), 7));
        list.add(new Student("Ethan", "Williams", sdf.parse("2012-02-18"), 3));
        list.add(new Student("Fiona", "Davis", sdf.parse("2010-06-30"), 5));
        list.add(new Student("George", "Wilson", sdf.parse("2007-09-25"), 8));
        list.add(new Student("Hannah", "Moore", sdf.parse("2009-12-12"), 6));
        list.add(new Student("Ian", "Taylor", sdf.parse("2011-04-03"), 4));
        list.add(new Student("Julia", "Anderson", sdf.parse("2012-08-17"), 3));
        list.add(new Student("Kevin", "Thomas", sdf.parse("2008-05-14"), 7));
        list.add(new Student("Lily", "Jackson", sdf.parse("2009-10-28"), 6));
        list.add(new Student("Mark", "White", sdf.parse("2010-09-09"), 5));
        list.add(new Student("Nina", "Harris", sdf.parse("2011-12-22"), 4));
        list.add(new Student("Oscar", "Martin", sdf.parse("2007-02-02"), 8));
    } catch (ParseException e) {
        e.printStackTrace();
    }

    return list;
```

```

    }

    // Extracts full names for display
    private ArrayList<String> getStudentNames(ArrayList<Student> list) {
        ArrayList<String> names = new ArrayList<>();
        for (Student s : list) {
            names.add(s.getFullName());
        }
        return names;
    }

    // Boilerplate wrapper
    private void addBoilerplateCode() {
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);

        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v,
insets) -> {
            Insets systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top,
systemBars.right, systemBars.bottom);
            return insets;
        });
    }
}

```