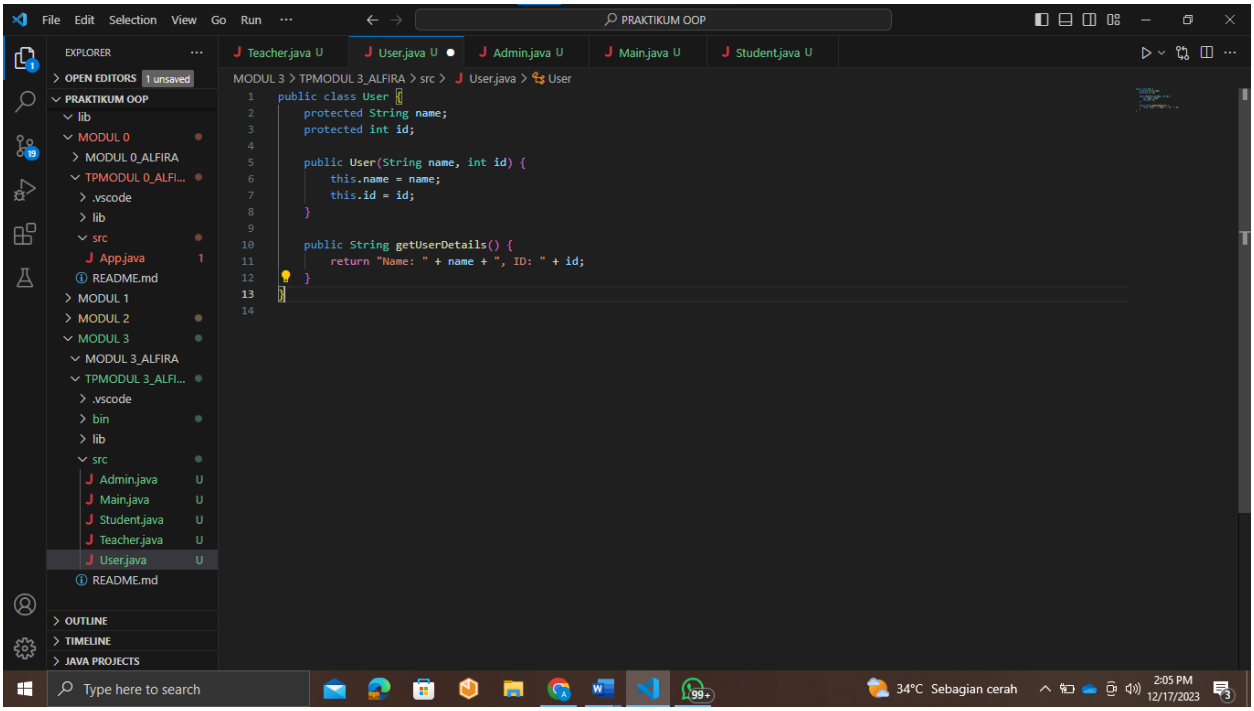
File Edit Selection View Go Run
PRAKTIKUM OOP
EXPLORER
OPEN EDITORS 1 unsaved
PRAKTIKUM OOP
Teacher.java U
User.java U
Admin.java U
Main.java U
Student.java U
MODUL 3 > TPMODUL 3_ALFIRA > src > User.java > User
public class User {
protected String name;
protected int id;
public User(String name, int id) {
this.name = name;
this.id = id;
}
public String getUserDetails() {
return "Name: " + name + ", ID: " + id;
}
}
OUTLINE
TIMELINE
JAVA PROJECTS
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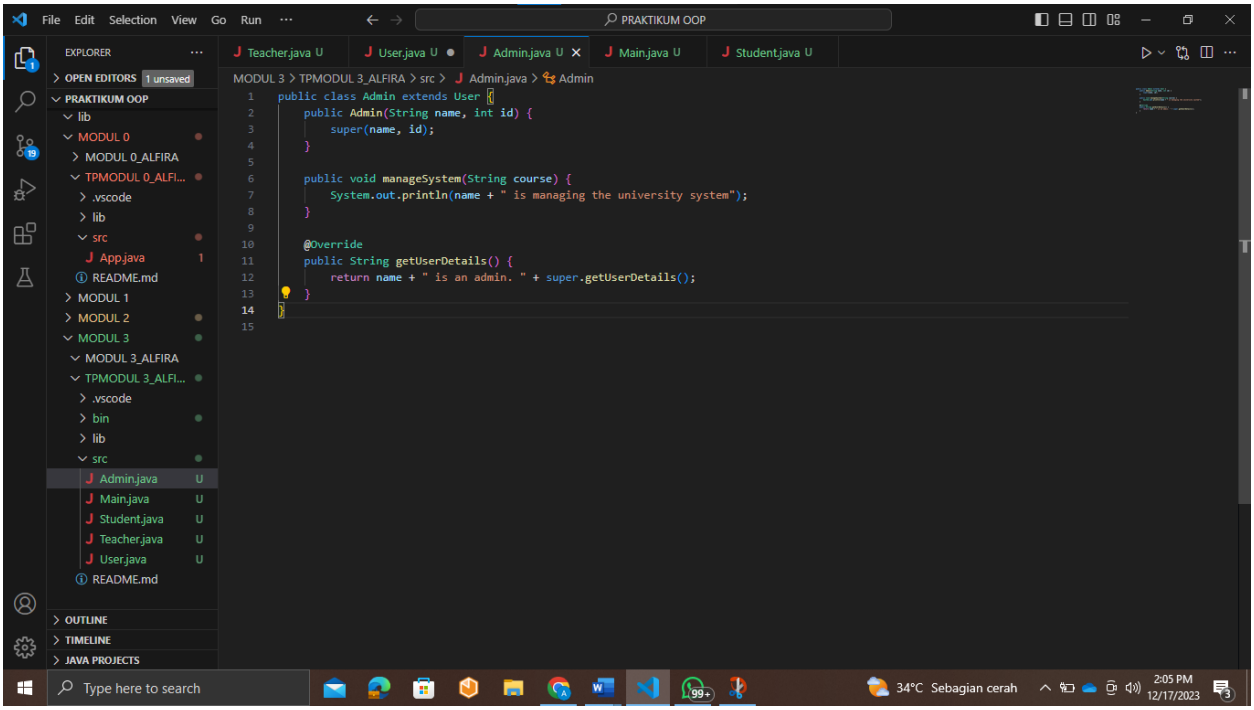
2:05 PM
12/17/2023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OPEN EDITORS 1 unsaved
PRAKTIKUM OOP
Teacher.java U
User.java U
Admin.java U
Main.java U
Student.java U
MODUL 3 > TPMODUL 3_ALFIRA > src > Admin.java > Admin
public class Admin extends User {
public Admin(String name, int id) {
super(name, id);
}
public void manageSystem(String course) {
System.out.println(name + " is managing the university system");
}
@Override
public String getUserDetails() {
return name + " is an admin. " + super.getUserDetails();
}
}
OUTLINE
TIMELINE
JAVA PROJECTS
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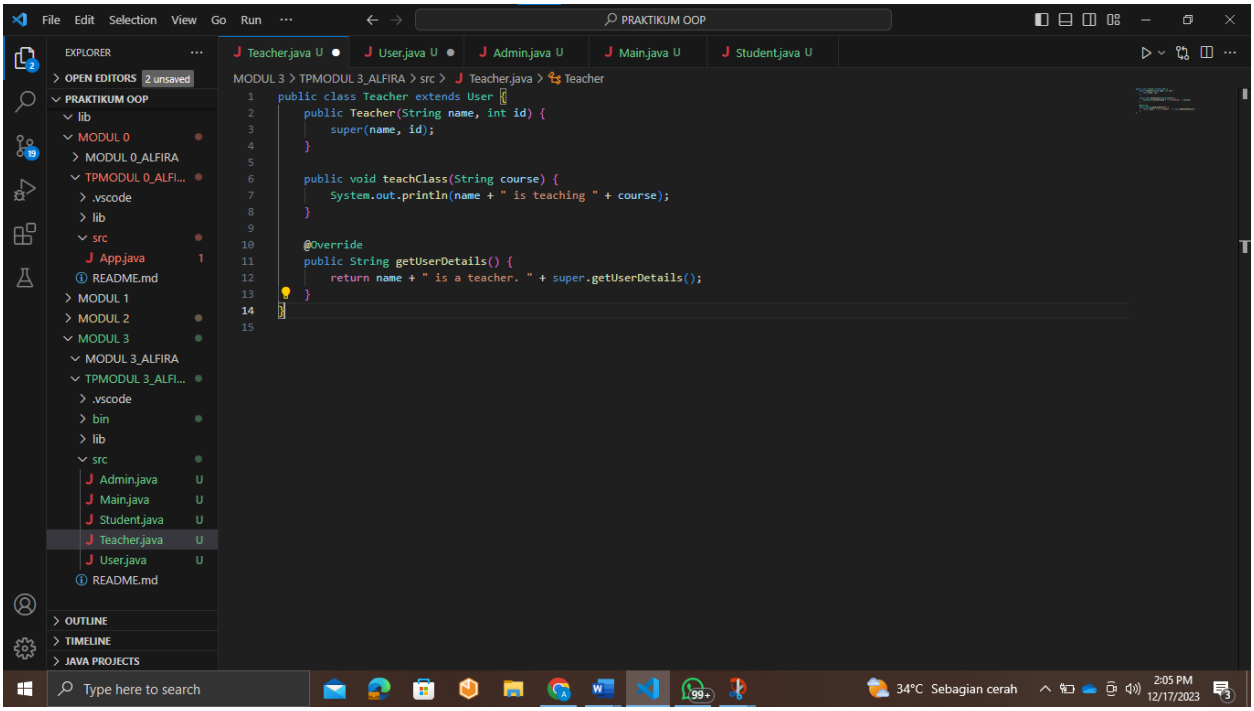
12/17/2023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PRAKTIKUM OOP
EXPLORER
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PRAKTIKUM OOP
Teacher.java U
User.java U
Admin.java U
Main.java U
Student.java U
MODUL 3 > TPMODUL 3_ALFIRA > src > Teacher.java > Teacher
public class Teacher extends User {
public Teacher(String name, int id) {
super(name, id);
}
public void teachClass(String course) {
System.out.println(name + " is teaching " + course);
}
@Override
public String getUserDetails() {
return name + " is a teacher. " + super.getUserDetails();
}
}
OUTLINE
TIMELINE
JAVA PROJECTS
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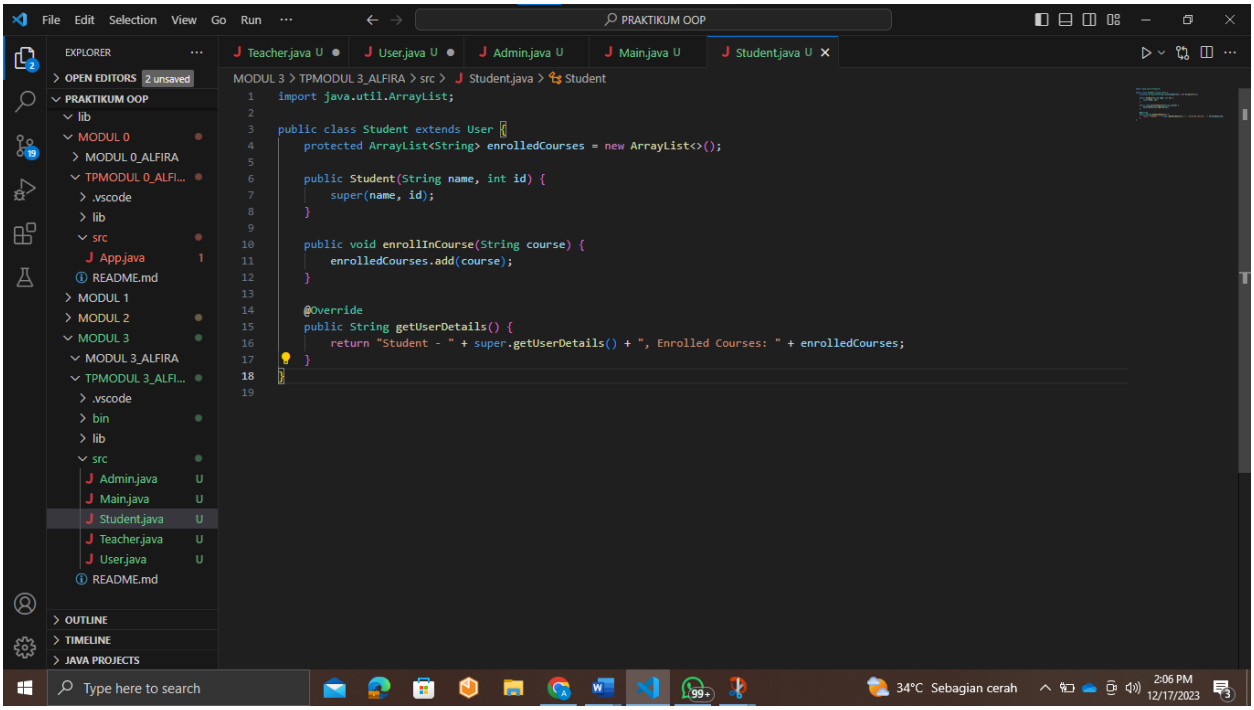
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PRAKTIKUM OOP
Teacher.java U
User.java U
Admin.java U
Main.java U
Student.java U
MODUL 3 > TPMODUL 3_ALFIRA > src > Student.java > Student
import java.util.ArrayList;
public class Student extends User {
protected ArrayList<String> enrolledCourses = new ArrayList<>();
public Student(String name, int id) {
super(name, id);
}
public void enrollInCourse(String course) {
enrolledCourses.add(course);
}
@Override
public String getUserDetails() {
return "Student - " + super.getUserDetails() + ", Enrolled Courses: " + enrolledCourses;
}
}
OUTLINE
TIMELINE
JAVA PROJECTS
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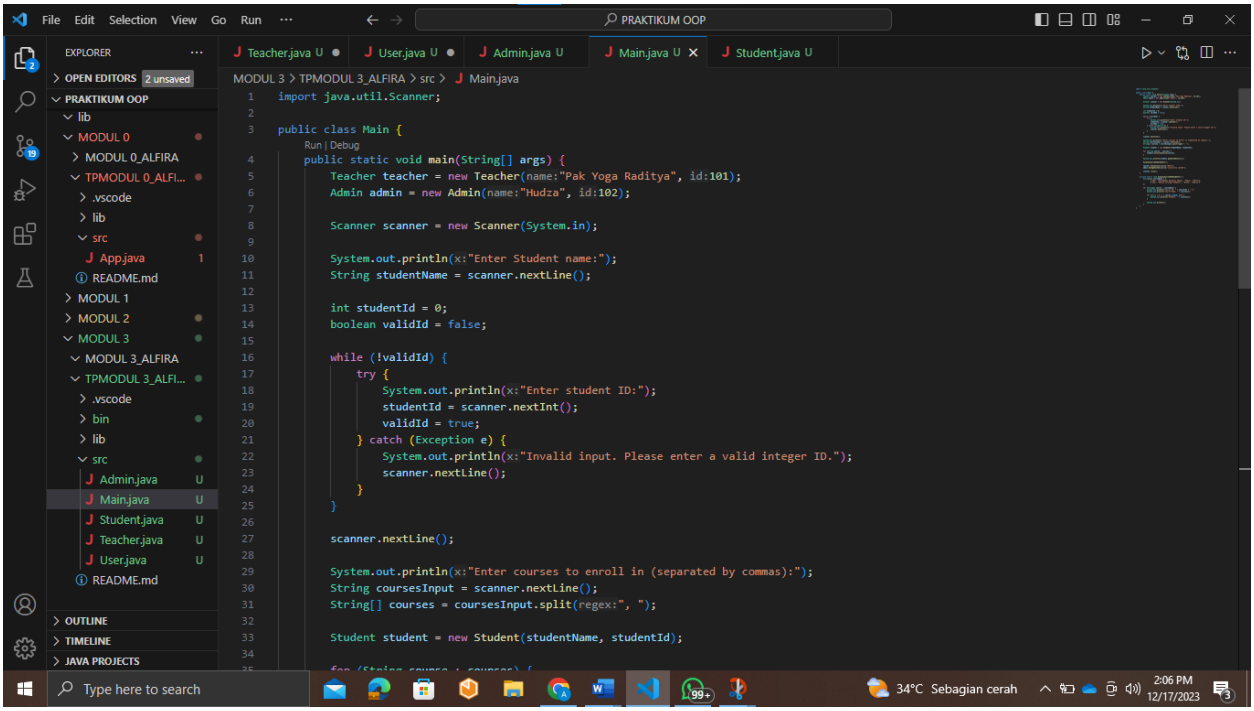
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Teacher.java U
User.java U
Admin.java U
Main.java U
Student.java U
MODUL 3 > TPMODUL 3_ALFIRA > src > Main.java
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PRAKTIKUM OOP
lib
MODUL 0
MODUL 0_ALFIRA
TPMODUL 0_ALFI...
.vscode
lib
src
App.java
README.md
MODUL 1
MODUL 2
MODUL 3
MODUL 3_ALFIRA
TPMODUL 3_ALFI...
.vscode
bin
lib
src
Admin.java
Main.java
Student.java
Teacher.java
User.java
README.md
OUTLINE
TIMELINE
JAVA PROJECTS
import java.util.Scanner;
public class Main {
Run | Debug
public static void main(String[] args) {
Teacher teacher = new Teacher(name:"Pak Yoga Raditya", id:101);
Admin admin = new Admin(name:"Hudza", id:102);
Scanner scanner = new Scanner(System.in);
System.out.println(x:"Enter Student name:");
String studentName = scanner.nextLine();
int studentId = 0;
boolean validId = false;
while (!validId) {
try {
System.out.println(x:"Enter student ID:");
studentId = scanner.nextInt();
validId = true;
} catch (Exception e) {
System.out.println(x:"Invalid input. Please enter a valid integer ID.");
scanner.nextLine();
}
}
scanner.nextLine();
System.out.println(x:"Enter courses to enroll in (separated by commas):");
String coursesInput = scanner.nextLine();
String[] courses = coursesInput.split(regex:", ");
Student student = new Student(studentName, studentId);
Type here to search
34°C Sebagian cerah
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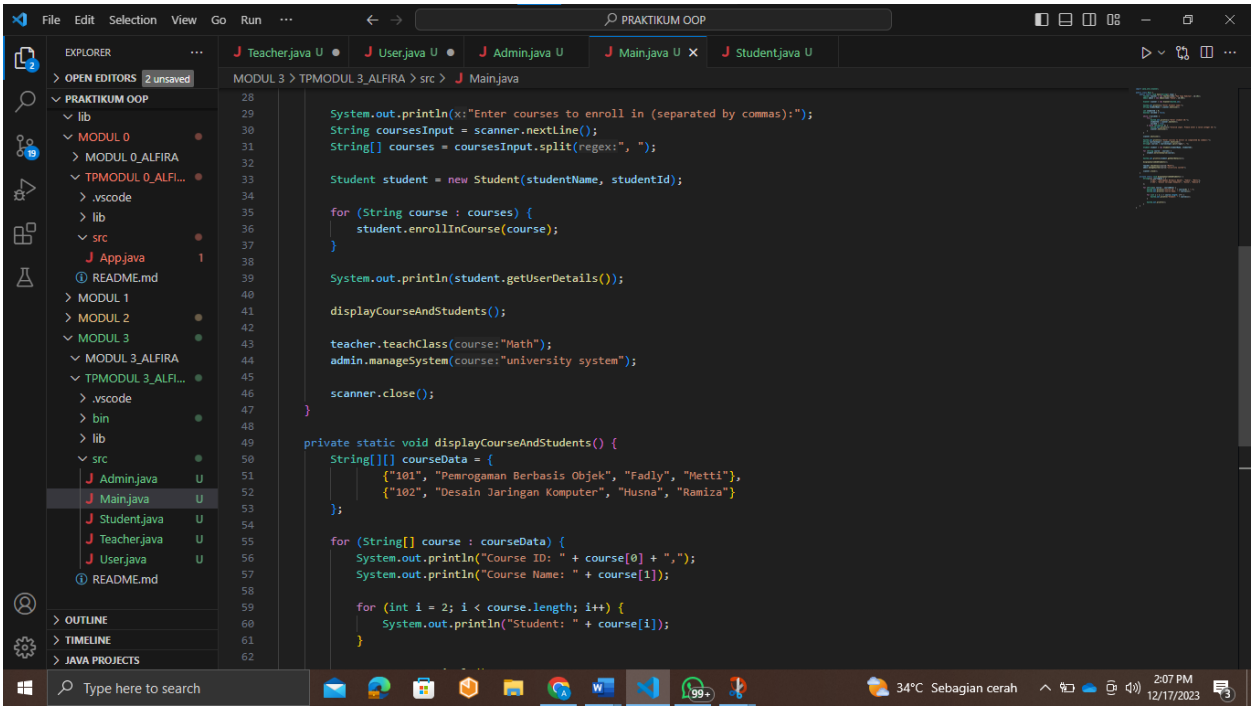
12/17/2023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PRAKTIKUM OOP
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Student.java U
MODUL 3 > TPMODUL 3_ALFIRA > src > Main.java
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PRAKTIKUM OOP
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TPMODUL 0_ALFI...
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bin
lib
src
Admin.java
Main.java
Student.java
Teacher.java
User.java
README.md
OUTLINE
TIMELINE
JAVA PROJECTS
System.out.println(x:"Enter courses to enroll in (separated by commas):");
String coursesInput = scanner.nextLine();
String[] courses = coursesInput.split(regex:", ");
Student student = new Student(studentName, studentId);
for (String course : courses) {
student.enrollInCourse(course);
}
System.out.println(student.getUserDetails());
displayCourseAndStudents();
teacher.teachClass(course:"Math");
admin.manageSystem(course:"university system");
scanner.close();
}
private static void displayCourseAndStudents() {
String[][] courseData = {
{"101", "Pemrogaman Berbasis Objek", "Fadly", "Metti"},
{"102", "Desain Jaringan Komputer", "Husna", "Ramiza"}
};
for (String[] course : courseData) {
System.out.println("Course ID: " + course[0] + ",");
System.out.println("Course Name: " + course[1]);
for (int i = 2; i < course.length; i++) {
System.out.println("Student: " + course[i]);
}
Type here to search
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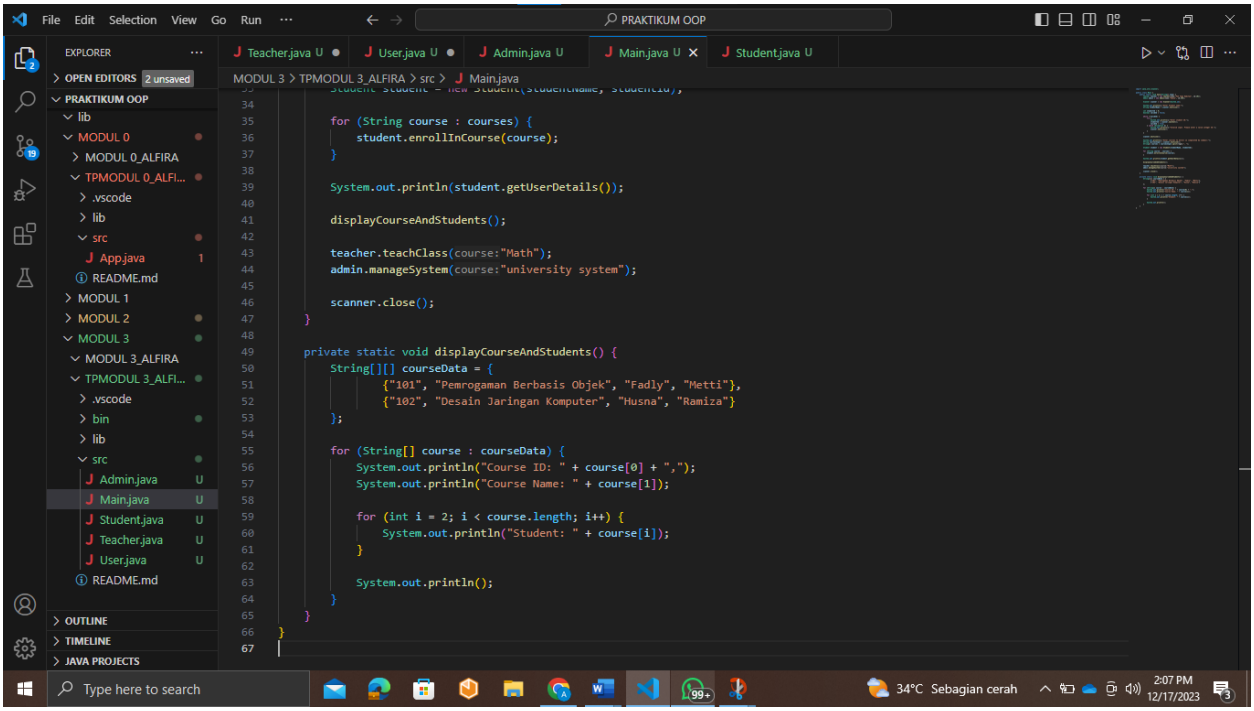
File Edit Selection View Go Run
PRAKTIKUM OOP
EXPLORER
OPEN EDITORS 2 unsaved
PRAKTIKUM OOP
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MODUL 0
MODUL 0_ALFIRA
TPMODUL 0_ALFI...
.vscode
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App.java 1
README.md
MODUL 1
MODUL 2
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MODUL 3_ALFIRA
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bin
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src
Admin.java U
Main.java U
Student.java U
Teacher.java U
User.java U
README.md
OUTLINE
TIMELINE
JAVA PROJECTS
Teacher.java U
User.java U
Admin.java U
Main.java U
Student.java U
MODUL 3 > TPMODUL 3_ALFIRA > src > Main.java
34 for (String course : courses) {
35 student.enrollInCourse(course);
36 }
37
38 System.out.println(student.getUserDetails());
39
40 displayCourseAndStudents();
41
42 teacher.teachClass(course:"Math");
43 admin.manageSystem(course:"university system");
44
45 scanner.close();
46 }
47
48 private static void displayCourseAndStudents() {
49 String[][] courseData = {
50 {"101", "Pemrogaman Berbasis Objek", "Fadly", "Metti"},
51 {"102", "Desain Jaringan Komputer", "Husna", "Ramiza"}
52 };
53
54 for (String[] course : courseData) {
55 System.out.println("Course ID: " + course[0] + ",");
56 System.out.println("Course Name: " + course[1]);
57
58 for (int i = 2; i < course.length; i++) {
59 System.out.println("Student: " + course[i]);
60 }
61
62 System.out.println();
63 }
64 }
65 }
66
67
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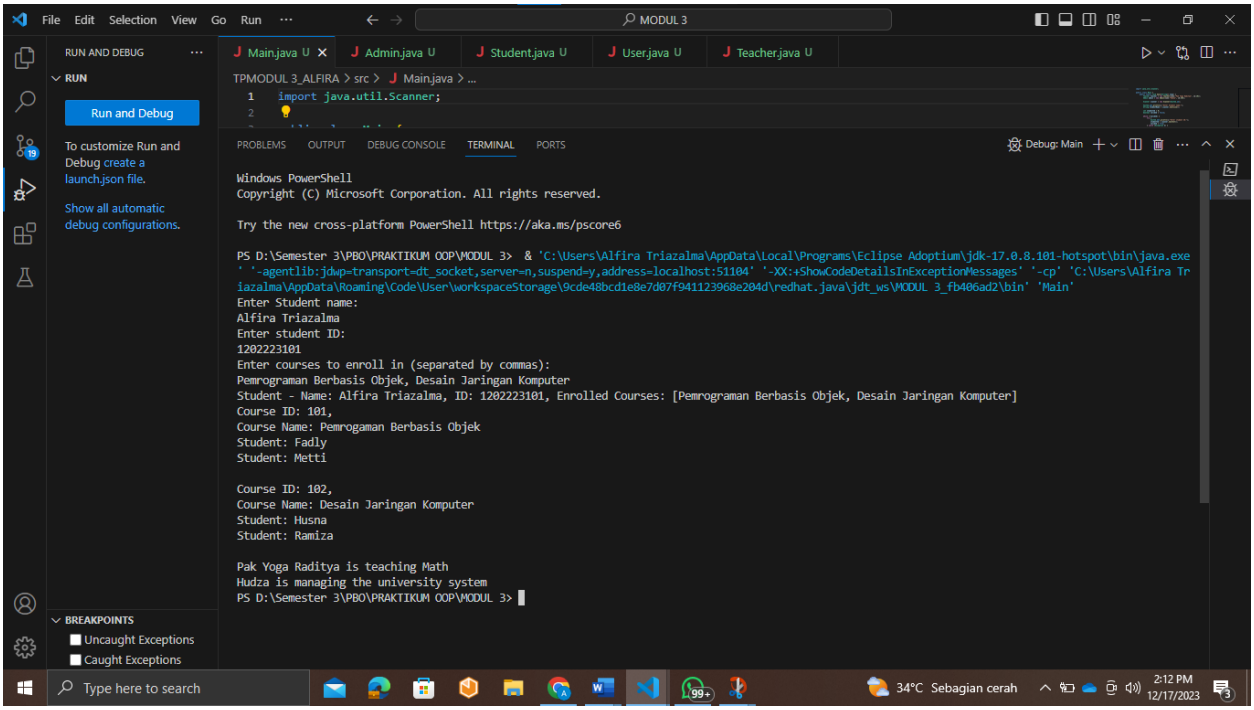
File Edit Selection View Go Run
MODUL 3
RUN AND DEBUG
RUN
Run and Debug
To customize Run and Debug create a launch.json file.
Show all automatic debug configurations.
BREAKPOINTS
Uncaught Exceptions
Caught Exceptions
Main.java U
Admin.java U
Student.java U
User.java U
Teacher.java U
TPMODUL 3_ALFIRA > src > Main.java > ...
1 import java.util.Scanner;
2
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Debug: Main
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS D:\Semester 3\PBO\PRAKTIKUM OOP\MODUL 3> & 'C:\Users\Alfira Triazalma\AppData\Local\Programs\Eclipse Adoptium\jdk-17.0.8.101-hotspot\bin\java.exe' '-agentlib:jdwp=transport=dt_socket,server=n,suspend=y,address=localhost:51104' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Alfira Triazalma\AppData\Roaming\Code\User\workspaceStorage\9cde48bcd1e8e7d07f941123968e204d\redhat.java\jdt_ws\MODUL 3_fb406ad2\bin' 'Main'
Enter Student name:
Alfira Triazalma
Enter student ID:
1202223101
Enter courses to enroll in (separated by commas):
Pemrograman Berbasis Objek, Desain Jaringan Komputer
Student - Name: Alfira Triazalma, ID: 1202223101, Enrolled Courses: [Pemrograman Berbasis Objek, Desain Jaringan Komputer]
Course ID: 101,
Course Name: Pemrogaman Berbasis Objek
Student: Fadly
Student: Metti
Course ID: 102,
Course Name: Desain Jaringan Komputer
Student: Husna
Student: Ramiza
Pak Yoga Raditya is teaching Math
Hudza is managing the university system
PS D:\Semester 3\PBO\PRAKTIKUM OOP\MODUL 3>
Type here to search
34°C Sebagian cerah
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12/17/2023