ASSIGNMENT

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CODE:

import java.util.ArrayList;

import java.util.Scanner;

class Student {

String name;

int id;

int rollNo;

String course;

String phone;

String grade;

String place;

Student(String name, int id, int rollNo, String course, String phone, String grade, String place) {

this.name = name;

this.id = id;

this.rollNo = rollNo;

this.course = course;

this.phone = phone;

this.grade = grade;

this.place = place;

}

void display() {

System.out.println("Name: " + name);

System.out.println("ID: " + id);

System.out.println("Roll No: " + rollNo);

System.out.println("Course: " + course);

System.out.println("Phone: " + phone);

System.out.println("Grade: " + grade);

System.out.println("Place: " + place);

System.out.println("--------------------------");

}

}

public class StudentManagement {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

ArrayList<Student> students = new ArrayList<>();

int choice;

do {

System.out.println("\n--- Student Management System ---");

System.out.println("1. Add Student");

System.out.println("2. Display All Students");

System.out.println("4. Modify Student");

System.out.println("5. Exit");

System.out.print("Enter your choice: ");

choice = sc.nextInt();

sc.nextLine(); // consume newline

switch (choice) {

case 1:

System.out.print("Enter Name: ");

String name = sc.nextLine();

System.out.print("Enter ID: ");

int id = sc.nextInt();

System.out.print("Enter Roll No: ");

int rollNo = sc.nextInt();

sc.nextLine(); // consume newline

System.out.print("Enter Course: ");

String course = sc.nextLine();

System.out.print("Enter Phone Number: ");

String phone = sc.nextLine();

System.out.print("Enter Grade: ");

String grade = sc.nextLine();

System.out.print("Enter Place: ");

String place = sc.nextLine();

students.add(new Student(name, id, rollNo, course, phone, grade, place));

System.out.println("Student added successfully.");

break;

case 2:

if (students.isEmpty()) {

System.out.println("No student records found.");

} else {

for (Student s : students) {

s.display();

}

}

break;

case 4:

System.out.print("Enter Roll No of the student to modify: ");

int searchRoll = sc.nextInt();

sc.nextLine(); // consume newline

boolean found = false;

for (Student s : students) {

if (s.rollNo == searchRoll) {

System.out.println("Enter new details:");

System.out.print("Name: ");

s.name = sc.nextLine();

System.out.print("ID: ");

s.id = sc.nextInt();

System.out.print("Roll No: ");

s.rollNo = sc.nextInt();

sc.nextLine();

System.out.print("Course: ");

s.course = sc.nextLine();

System.out.print("Phone: ");

s.phone = sc.nextLine();

System.out.print("Grade: ");

s.grade = sc.nextLine();

System.out.print("Place: ");

s.place = sc.nextLine();

System.out.println("Student details updated.");

found = true;

break;

}

}

if (!found) {

System.out.println("Student with that Roll No not found.");

}

break;

case 5:

System.out.println("Exiting...");

break;

default:

System.out.println("Invalid choice.");

}

} while (choice != 5);

sc.close();

}

}

OUTPUT:

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer program

AI-generated content may be incorrect.

A computer screen shot of a program

AI-generated content may be incorrect.