



UUM

Universiti Utara Malaysia

**STIA1113
PROGRAMMING-1 (I)**

**INDIVIDUAL
ASSIGNMENT-2**

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1. INPUT/PROGRAM CODE

```
import java.util.Scanner;

public class App {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        // Declare variables
        String name = "";
        int matric = 0;
        double carryMark = 0.0;
        double finalExamMark = 0.0;

        boolean exit = false;

        // Main menu loop
        while (!exit) {

            System.out.println("\n--- MAIN MENU ---\n");
            System.out.println("0. Exit");
            System.out.println("1. Input Student Data");
            System.out.println("2. View Data");
            System.out.println("3. Edit Mark");
            System.out.print("Enter Menu: ");

            int choice = scanner.nextInt();
            scanner.nextLine(); // Consume the newline character

            switch (choice) {
                case 1:
                    // Input student data
                    System.out.println("\n--- INPUT DATA ---\n");
                    System.out.print("Enter Name: ");
                    name = scanner.nextLine();
                    System.out.print("Enter Matric: ");
                    matric = scanner.nextInt();
                    System.out.print("Enter Carry Mark (60%): ");
                    carryMark = scanner.nextDouble();
                    System.out.print("Enter Final Exam Mark (40%): ");
                    finalExamMark = scanner.nextDouble();
                    break;
```

```
case 2:
    // View student data
    viewData(name, matric, carryMark, finalExamMark);
    System.out.print("\nPress Enter to return to the Main Menu.\n");
    scanner.nextLine();
    break;
```

```
case 3:
    // Edit marks
    System.out.println("\n--- EDIT MARK ---\n");
    System.out.print("Enter new Carry Mark (60%): ");
    carryMark = scanner.nextDouble();
    System.out.print("Enter new Final Exam Mark (40%): ");
    finalExamMark = scanner.nextDouble();
    break;
```

```
case 0:
    // Exit the program
    exit = true;
    System.out.println("\nExiting the program. Goodbye!");
    break;
```

```
default:
    System.out.println("Invalid choice. Please enter a valid option.");
}
}
```

```
// Close the scanner
// scanner.close();
}
```

```
// Method to view student data
private static void viewData(String name, int matric, double carryMark, double finalExamMark) {
    double totalMark = (carryMark * 0.6) + (finalExamMark * 0.4);
    String grade = calculateGrade(totalMark);

    System.out.println("\n--- STUDENT DATA ---\n");
    System.out.println("Name: " + name);
    System.out.println("Matric: " + matric);
    System.out.println("Carry Mark: " + carryMark);
    System.out.println("Final Exam Mark: " + finalExamMark);
    System.out.println("Total Mark: " + totalMark);
    System.out.println("Grade: " + grade);
}
```

```
// Method to calculate the grade
private static String calculateGrade(double totalMark) {
    if (totalMark > 100) {
        return "A+++";
    } else if (totalMark == 100) {
        return "A+";
    } else if (totalMark >= 90) {
        return "A";
    } else if (totalMark >= 80) {
        return "B+";
    } else if (totalMark >= 70) {
        return "B";
    } else if (totalMark >= 60) {
        return "C+";
    } else {
        return "C";
    }
}
}
```

2.OUTPUT

Code File Edit Selection View Go Run Terminal Window Help

EXPLORER

ASSIGNMENT-2

- .vscode
 - settings.json
- bin
- lib
- src
 - App.class
 - App.java 1
 - README.md

PROBLEMS 1

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

zsh

Run: App

```
andyderis33@andyderis-pas-3 Assignment-2 % /usr/bin/env /Library/Java/JavaVirtualMachines/jdk-21.jdk/Contents/Home/bin/java --enable-preview -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/andyderis33/Downloads/PROGRAMMING-1/Assignment-2/bin App

--- MAIN MENU ---

0. Exit
1. Input Student Data
2. View Data
3. Edit Mark
Enter Menu: 1

--- INPUT DATA ---

Enter Name: ANDYDERIS PAS
Enter Matric: 296530
Enter Carry Mark (60%): 99
Enter Final Exam Mark (40%): 99

--- MAIN MENU ---

0. Exit
1. Input Student Data
2. View Data
3. Edit Mark
Enter Menu: 2

--- STUDENT DATA ---

Name: ANDYDERIS PAS
Matric: 296530
Carry Mark: 99.0
Final Exam Mark: 99.0
Total Mark: 99.0
Grade: A

Press Enter to return to the Main Menu.
```

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Code File Edit Selection View Go Run Terminal Window Help

EXPLORER

ASSIGNMENT-2

- .vscode
 - settings.json
- bin
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 - App.class
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PROBLEMS 1

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

zsh

Run: App

```
Name: ANDYDERIS PAS
Matric: 296530
Carry Mark: 99.0
Final Exam Mark: 99.0
Total Mark: 99.0
Grade: A

Press Enter to return to the Main Menu.

--- MAIN MENU ---

0. Exit
1. Input Student Data
2. View Data
3. Edit Mark
Enter Menu: 3

--- EDIT MARK ---

Enter new Carry Mark (60%): 88
Enter new Final Exam Mark (40%): 88

--- MAIN MENU ---

0. Exit
1. Input Student Data
2. View Data
3. Edit Mark
Enter Menu: 2

--- STUDENT DATA ---

Name: ANDYDERIS PAS
Matric: 296530
Carry Mark: 88.0
Final Exam Mark: 88.0
Total Mark: 88.0
Grade: B+

Press Enter to return to the Main Menu.
```

Ln 19, Col 57 Spaces: 4 UTF-8 LF {} Java Prettier