Basic Programming Practicum Jobsheet 4 Selection 1 Assignment



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> > Class

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Department

Information Technology

Study Program

D4 Informatics Engineering

1 Assignment

1. Create a program to input two integers, then print on with the largest value!

```
1mport java.ut1l.Scanner;
       public class TwoIntegers {
           public static void main(String[] args) {
               -Scanner input = new Scanner(System.in);
                System.out.print("Please insert the first number: ");
                int number1 = input.nextInt();
                System.out.print("Please insert the second number: ");
                int number2 = input.nextInt();
                1f (number1 > number2) {
                    System.out.println("The first number is greater than the second number");
                } else if (number1 < number2) {
                    System.out.println("The second number is greater than the first number");
                } else {
                    System.out.println("The first number and the second number is equal");
 19
                input.close();
uni-stuff/basic-programming-practicum/2022-09-29/jobsheet-4/codes/assignment on // master (!?) vi
) javac <u>TwoIntegers.java</u> && java <u>TwoIntegers</u>
Please insert the first number: 8
Please insert the second number: 9
The second number is greater than the first number
uni-stuff/basic-programming-practicum/2022-09-29/jobsheet-4/codes/assignment on // master (!?) vi
) javac <u>TwoIntegers.java</u> && java <u>TwoIntegers</u>
Please insert the first number: 10
Please insert the second number: 2
The first number is greater than the second number
```

Figure 1: Comparing two integers

2. Observe the following flowchart!

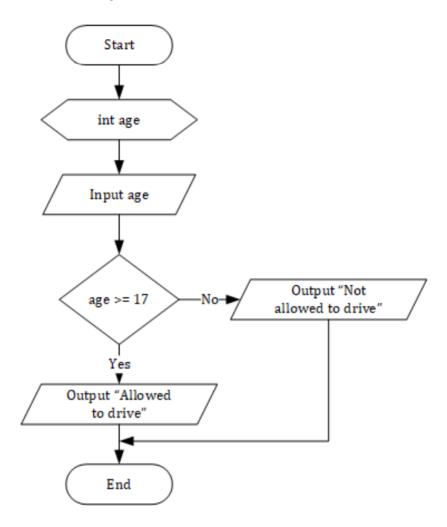


Figure 2: Flowchart

Write program code according to the flowchart!

```
1mport java.ut1l.Scanner;
       public class FlowchartAge {
           public static void main(String[] args) {
               Scanner input = new Scanner(System.in);
                System.out.print("Please insert your age: ");
                age = input.nextInt();
                1f (age >= 17) {
                    System.out.println("Allowed to drive");
                } else {
                    System.out.println("Not allowed to drive");
                input.close();
         OUTPUT DEBUG CONSOLE TERMINAL
uni-stuff/basic-programming-practicum/2022-09-29/jobsheet-4/codes/assignment on // master (!?) via
( javac FlowchartAge.java && java FlowchartAge
Please insert your age: 16
Not allowed to drive
uni-stuff/basic-programming-practicum/2022-09-29/jobsheet-4/codes/assignment on | master (!?) via
) javac FlowchartAge.java && java FlowchartAge
Please insert your age: 18
Allowed to drive
```

Figure 3: Implementation based on the Flowchart

3. At the end of the semester a lecturer calculates the final score of students which consists of midterm exam score, final exam score, quiz scores, and assignment scores. The final score is obtained from 30% of midterm exams core, 40% of final exam score, 10% of quiz scores, and 20% of assignment scores. If the final score of the student is less than 65, then the student will get a remedy. Create a program to help determine which students get remedies based on the final score they received!

Figure 4: Semester score calculation implementation