Practice (I) Programming Design (I)

Name: Student ID:

~~In this exam, you can use computers, books, and chatGPT to answer questions.~~ Please upload programs of your answer. Each answering program corresponds to a question below. They are named 1.java, 2.java, …, and 10.java. In the end of exam.

Questions (10% for each):

1. Please give a declaration for 5 variables whose data types respectively are integer, character, boolean, double and Student where the last one contains member variables ID (String) and name (String). (10%)
2. Please write a Java program to read inputs for the previous 5 variables from users’ keyboard and design to print out their value.
3. Based on the programming code

int[] numbers = {3, 9, 5, -5};  
 // for each loop   
 for (int number: numbers) System.out.println(number);  
**Please write a Java program to assign values to students defined in (1)**  
 int[] students = {s1, s2, s3, s4};  
 // print students’ names   
 for (Student student: students) System.out.println(student.name);

Please write a Java program required with (A) studentsRef having address reference to students, print each student name by studentsRef (B) studentsCopied having all student instances copied from students, print each student name by studentsCopied.

1. Please write an if-else program to test whether an input integer bigger than 20 or not. Your program should show the result on screen.
2. Please write a switch program to test an input integer to check whether it is 20, 21, 22, 23, 24 or else. Your program should show the result on screen.
3. Please write a for loop to display a single line with 4 stars.
4. Please write a for loop to display 4 lines and each has 4 stars.
5. Please write a while loop to display 4 lines and each has 4 stars.
6. Please write a while loop to display

一張含有 星星, 雪花 的圖片

自動產生的描述一張含有 星星, 符號, 雪花 的圖片

自動產生的描述

1. Please write a for loop to display
2. Please write a program with 2 variables executing arithmetic operations by users’ choice.