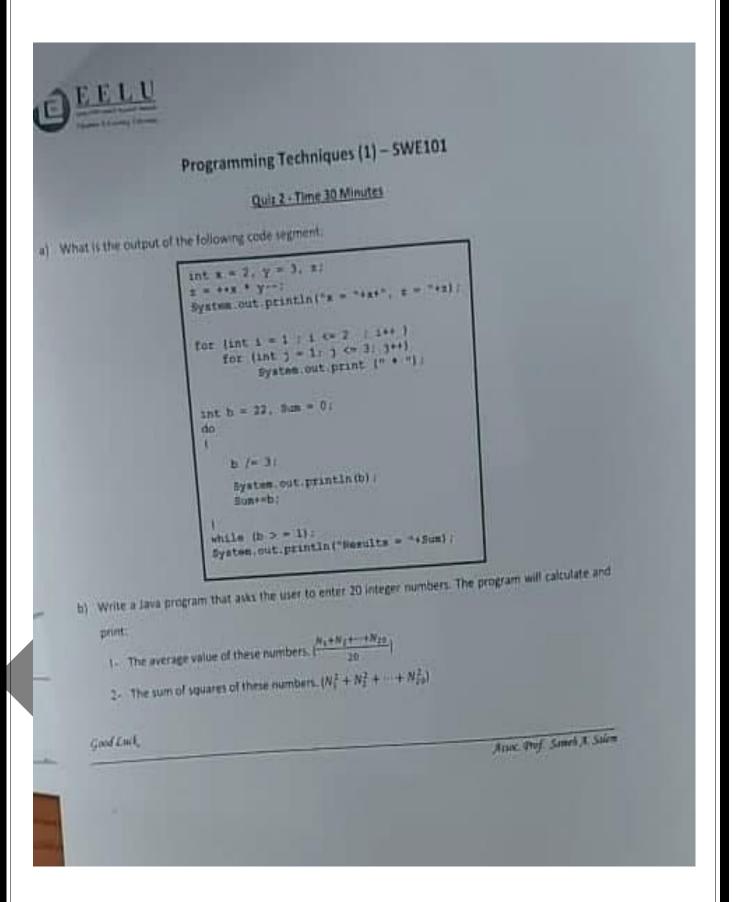


```
b) (4 Marks)
   Find the output of the following Java codes.
    public class program1 |
    public static void main(String[] args) [
      int age=20;
      if(age>18)(
         System.out.println("Age is greater than 18");
     (b)
     publicclassProgram2 (
     public static voidmain(String[] args) (
     int num1 = 5, num2 = 15, sum;
     sum = num1 + num2;
         System.out.println("Sum of these numbers: "+sum);
      (c)
      public class program3 (
      public static vold main(String[] args) {
           System.out.println("The two numbers are: " + (22 + 44) );
       (d)
       public class program4 (
       public static void main(String[] args) (
           System.out.println("TESTING \(\text{i"} + "123"\);
                                     END OF EXAM
                                            4 of 4
```





Programming Techniques (1) - SWE101

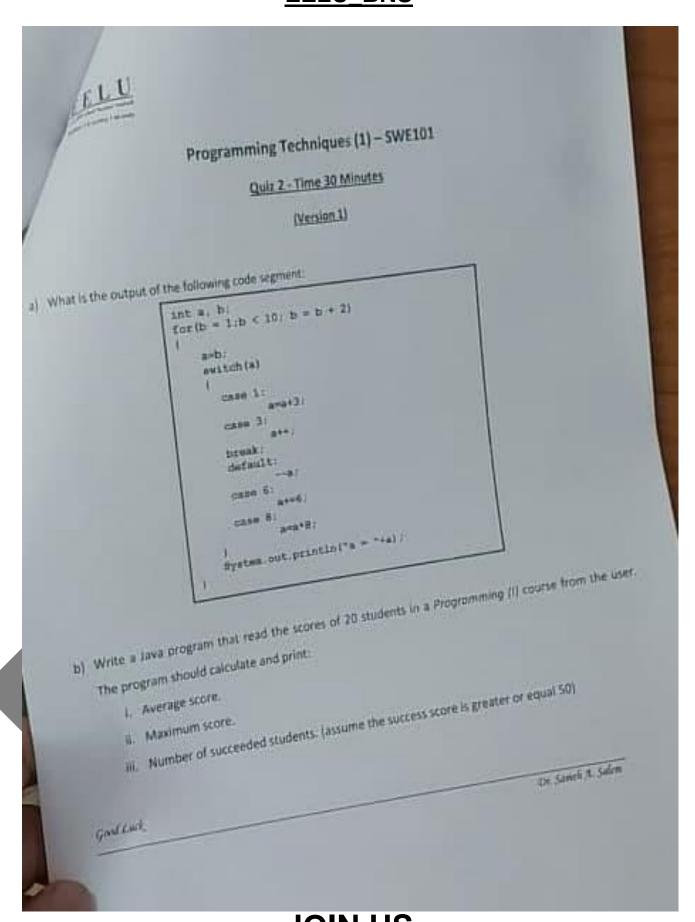
Quiz 1 - Time 30 Minutes

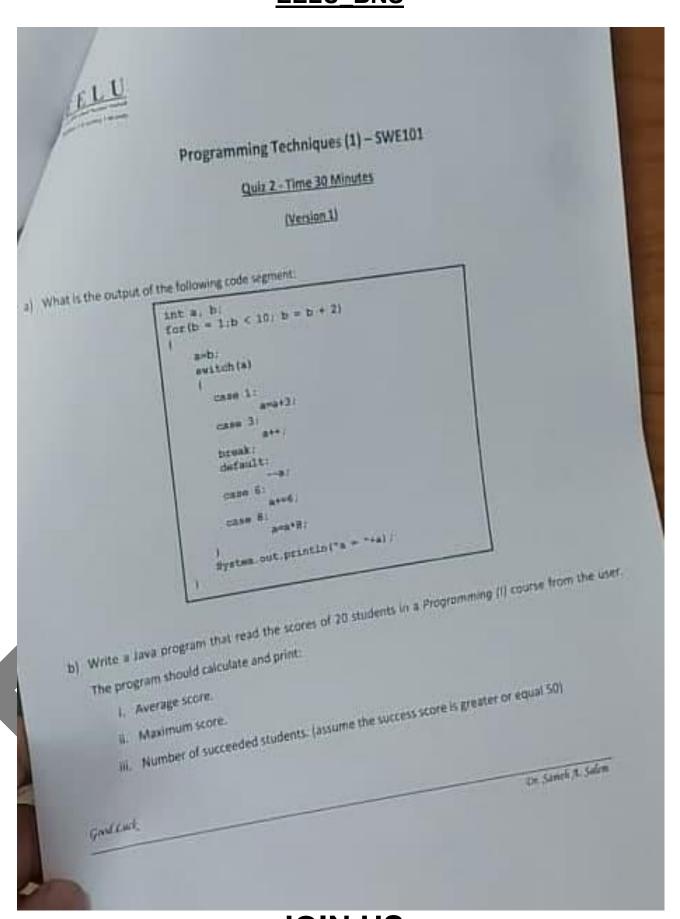
- a) Write true (T) or False (F) for each of the following:
 - 1- The Java compiler does not produce a machine language code. Instead, it produces a byte code which is not comprehensible by computers.
 - 2- Structured language (Pseudo code) is a type of a diagram that represents an algorithm.
 - 3- An algorithm is an ordered set of unambiguous executable steps that defines a terminating process.
 - 4- Both pseudo code and flow charts increase the understanding of the algorithm.
 - 5- Programming process consists of analysis, design, and then writing program codes.
 - 6- A compiler is a program that translates commands written using machine language into high level commands.
- b) Draw a <u>flowchart</u> for an algorithm that asks the user to enter his/her weight (in kilogram) and height (in meters). Then, the algorithm calculates and displays a person's Body Mass index (BMI) where BMI = weight/height². The algorithm should also display a message indicating whether a person has optimal weight, underweight, or overweight according to the following table.

| Body Mass Index (BMI) | BMI < 18.5 | $18.5 \leq BMI \leq 25$ | BMI > 25 |
|-----------------------|-------------|-------------------------|------------|
| Weight Status | Underweight | Optimal weight | Overweight |

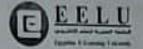
Good Euck

Assoc Prof. Sameh A. Salem





as of Computers and Information Technology or Name: Programming Techniques (1) arse ende: SWE 101



Year:2018-2019 (Fall Semester) Mid-Term Exam Time allowed: 90 Minutes Marks: 20

Answer the following questions

structor: Assoc. Prof. Sameh A. Salem

1) Write true (T) or false (F) for each of the following:

- [3 Marks]
- 1. An algorithm is an ordered set of unambiguous executable steps that defines a terminating process.
- 2. A compiler is a program that translates commands written using high level language into machine language commands.
- 3. Human language is the only language understood by computers.
- if y = 128, then y *=2; will get y = (128)².
- 5. Variable name can start with a number.
- 6. Syntax errors are caught by the compiler and the program cannot run without fixing
- 2) Rewrite the following Java program after correcting the syntax errors:

[3 Marks]

```
Clause App
         Welcome to EELU University
   publac static void MAIN(String[] args);
          Integer x=2;
          11(1 < x < 5)
          \\System.out.println("**** Programming (1) ****");
          Scanr K=new Scanner(System.out);
          System.println['Please enter Your name:
          S=K.nextInt;
          Print(**** Good Bye *****5).
     1
                                                                  [3 Marks]
```

3) Which of the following is a valid Java identifier (variable name)?

1. Svalue

5. int

2. bank account

4. name@hotmail

6. New_Student

Page 1 of 2

| The print method in Java is similar to the println method, except that it does | 1 |
|--|-----|
| not advance to the next line | |
| A constant in Java is an identifier that is similar to a variable except that it does not hold the same value during its entire existence | 1 0 |
| 3. In algorithmrepresentation, a very common, and natural, notation to express the repetition structure is: while (condition) do (activity) | 1 1 |
| Float and long are two primitive data types in Java that can be used to represent floating point numbers. | [] |
| 5 The string concatenation operator (+) is used to append one string to the end of another. | [] |
| A variable in Java can be given an initial value in the declaration such as Int total = 50; | [] |
| 7. When the following Java code is executed println("Sum = " + 45 + 22); The output will be Sum = 67 | 1 1 |
| Comments in Java should be included to explain the purpose of the program and describe processing but they do not affect how a program works | 1 1 |
| A program that is syntactically correct is necessarily logically (semantically) correct. | L 1 |
| An object in Java has State-which represents the descriptive characteristics Behaviors-which represents what it can do (or what can be done to it) | L I |

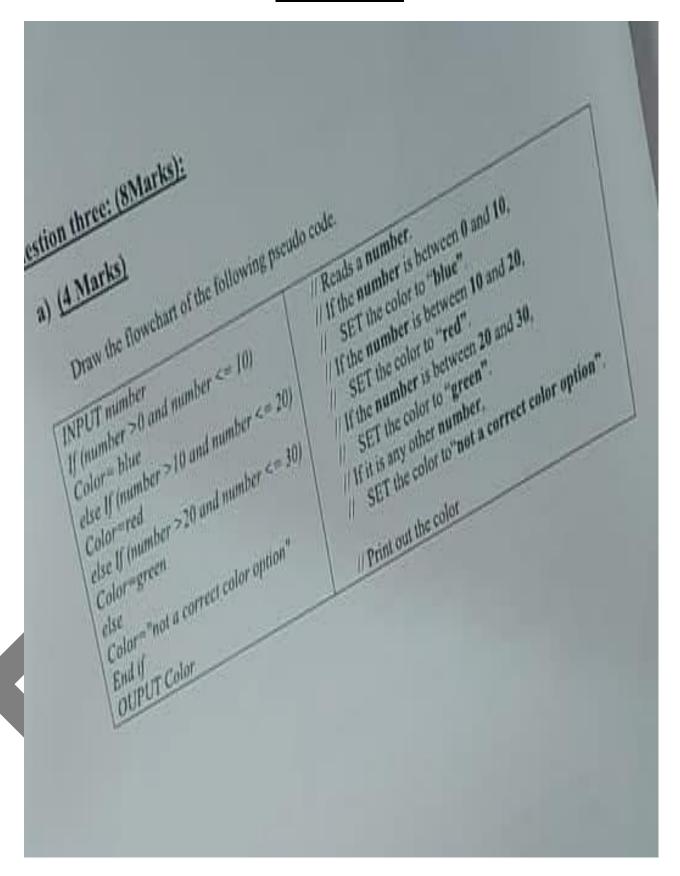
#101: Programming Techniques (1) - Fall 2014 Mohamed Elwakil



| Quiz | Marks | Date | Duration |
|--------|-------|--------|----------|
| #2-Ed2 | 5% | Dec-31 | 30 min. |

- 1. What is Java Byte code? [1 point]
- 2. List the three types of loop statements [1 point]
- 3. What will this program print? [3 points]

```
1. public class SomeClass (
      public static void main (String [] args)
2.
3.
              price = 70;
          int
         float amount = 6;
4.
5.
          float diff = 2;
6.
          if (price > 70)
7.
             diff = amount - price;
8.
9.
               if (price < 20)
10.
                  diff = price - amount;
11.
12.
              System.out.println ("Diff = " +
 13.
   diff);
 14.
 15.
```



aculty of Computers and
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WE101ProgrammingTechnique1
r. Haytham Azmi



Midterm Exam Time: 90 minutes Date: Nov4th, 2019 Total Marks: 20

20

Answer the following questions:

Question One (7 Marks):

 a) Write the pseudo code of a program that reads two numbers, adds them together and prints out their sum. (3Marks)

 b) Draw a flow chart of a program that reads two numbers, find the biggest of the two numbers, and prints it out on the screen. (4 Marks)

amputers and Information Technology ne: Programming Techniques (1) e: SWE 101 Dr. Sameh A. Salem



Year:2016-2017 (Fall Semester) Mid-Term Makeup Exam Time allowed: 90 Minutes Marks: 20

wer the following questions

Write true (T) or false (F) for each of the following:

[4 Marks]

- 1. Bytecode is the compiled format for Java programs and can be transferred across a network and executed by Java Virtual Machine (JVM).
- Both pseudo code and flow charts increase the understanding of the algorithm.
- Spaces are allowed in variable names.
- 4. Java is a case sensitive computer programming language.
- 5. Variables in Java are declared with the keyword final.
- Structured language (Pseudo code) is a type of a diagram that represents an algorithm.
- 7. Algorithms steps include input, processing, and output only.
- 8. A program is an algorithm in a computer programming language.

Rewrite the following Java program after correcting the syntax errors:

[3 Marks]

```
Clause App
   publac static void MAIN (String[] args);
         int a=3;b=4;c,
         //System.out.println("**** Welcome ****");
         System.println['I am proud to be a student at' ::
                     Egyptian E-Learning University (EELU);
          cma+b:
         printLN(The value of c is +C);
          Print(**** Good Bye ****).
    1
```

What is the output (<u>shown on screen</u>) after the execution of each the following java codes:

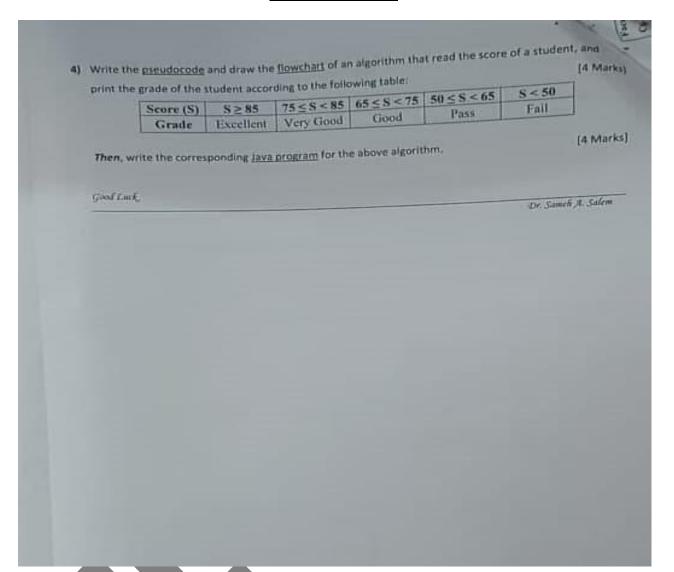
[5 Marks]

```
(A)
int m,n,z=2;
m = 10+4/2*3;
n = 14% (16+5);
System.out.println("m = "+m);
System.out.println("n = "+n);
System.out.println("z = "+z);
```

```
int x = 7, y = 2;
if((x > y || y < 2) && ((x + y) <= 9))
    System.out.println("This is True");</pre>
      System.out.println("This is False");
```

Page 1 of 2

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