Basic Programming Assignment Week 13

From:

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Class:

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Absence:

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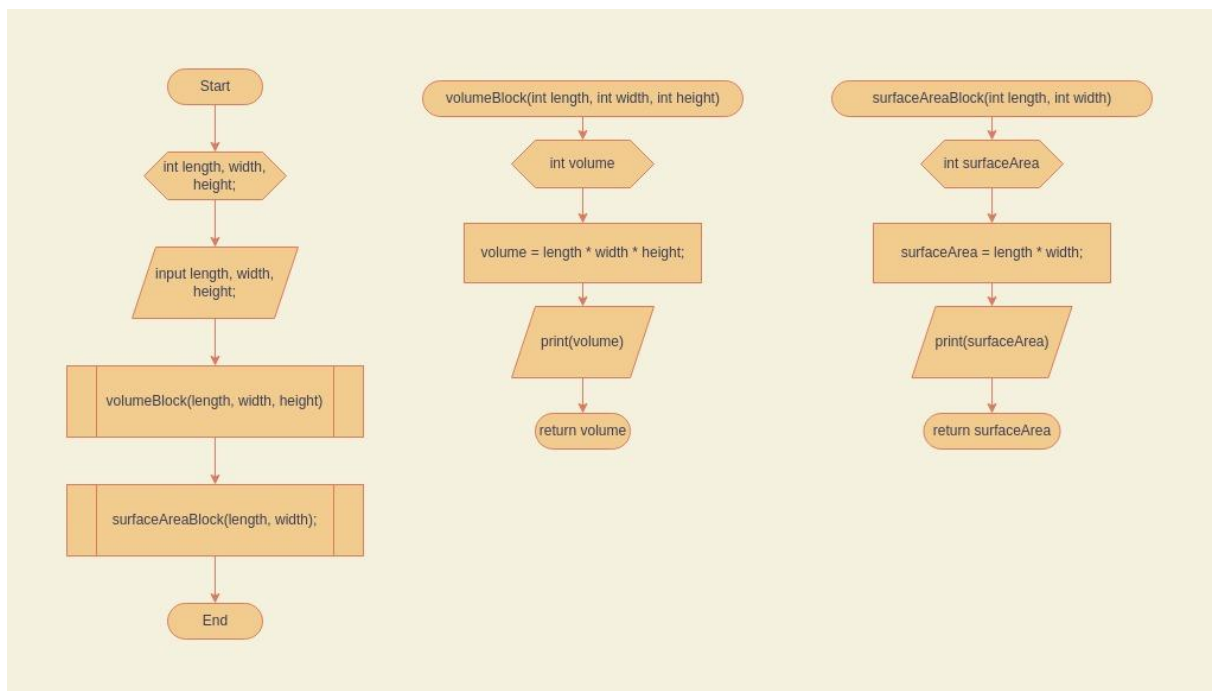**Major:**

Information Technology

Study Program:

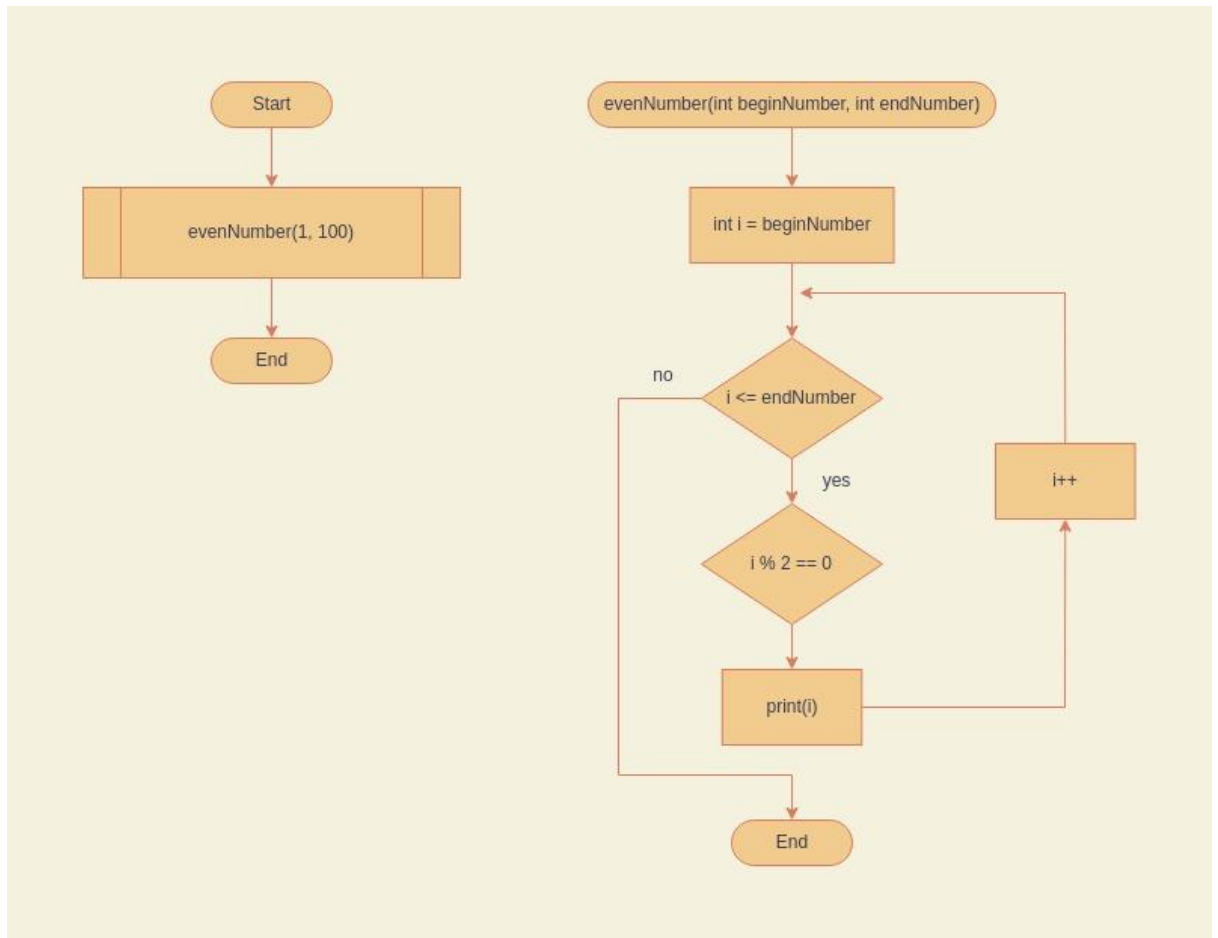Informatic Engineering

Assignment

1. Create a flowchart to calculate the surface area and volume of the block (surface area and volume of the block using functions)!

2. Create a flowchart to display an even number series between 1-100 (the series displayed using the function)!

3. Create a flowchart to input student names and grades (using an array) then calculate the class average score. The functions consist of:

a. The function displays student data

b. The function calculates the class average grade

Answer

1. Flowchart

2. Flowchart

3. Flowchart

Main flowchart:

Start → int amount → input amount → double [] grade = new double[amount]; String [] students = new String[amount]; → int i = 0 → i < amount (yes → input name, grade → i++) (no → displayStudents(students, grade, amount); → averageStudents(grade, amount); → End)

displayStudents(String[] students, double[] grade, int amount):

int i = 0 → i < amount (yes → print(students[i]) → print(grade[i]) → i++) (no → End)

averageStudents(double[] grade, int amount):

double average = 0, total = 0; → int i = 0 → i < amount (yes → total += grade[i] → i++) (no → average = total / amount → print(average) → return average)