110 Q3 THU 12/3 Sec**\_**Student**ID** \_\_\_\_\_\_\_\_\_\_\_ **Name in CAPITAL** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You can use pencil / pen / both. Pencil users cannot report problems/mistakes in checking this quiz paper when it will be returned back to you after checking. Forgetting to fill above blanks means, you are absent. You can use the other side of the pages as well for any of your answers if you need more space.

* Do not overwrite, instead cross-out/strikethrough ~~like this~~ and write again.
* Understanding the question is part of the exam. Manage space well/use column, no extra page will be given

**Q1) Draw flowchart of program that asks the user for a number, W, and then prints all numbers between “w” to your ID number. For example, user gives 200 as value of “W”, and if your ID number is 12345678, then your program should print all the numbers: 200, 201, 202 ….., 12345677, 12345678.**

**Q2) Draw flowchart of program that asks the user for two numbers, “table”, “count” and prints the times table for that number. For example, if the user gives 7 as value of “table” and 10 as value of “count”, then output will look like:**

**7 x 1 = 7**

**7 x 2 = 14**

**….**

**7 x 9 = 63**

**7 x 10 = 70**

**Q3) Draw flowchart of program that asks the user the value of n, and then prints out first n values of the following sequence:**

**1 -1 1 -1 1 -1 . . . . .**

**Q4) Javacode: In planet** **Barzakh, each day is 12 hours**

|  |  |
| --- | --- |
| **Military Time (input)** | **Civil Time (Output)** |
| **1** | **1 BT** |
| **2** | **2 BT** |
| **3** | **3 BT** |
| **4** | **1 MT** |
| **5** | **2 MT** |
| **6** | **3 MT** |
| **7** | **1 PT** |
| **8** | **2 PT** |
| **9** | **3 PT** |
| **10** | **4 PT** |
| **11** | **5 PT** |
| **12** | **6 PT** |

**(NOT 24) and time conversion table is below. Ask user for military time and then print time in civil time e.g., if the user gives 6 as input, print “3 MT” as output. Do NOT use more than three/four “PRINT”.**

**Q5) Draw flowchart of a program that asks the user the value of n, and then takes value of n numbers (a1, a2, … an )from the user and prints the Harmonic Mean (H). Hint: first calculate the sum, then divide.**

