|  |  |
| --- | --- |
| **Military Time (input)** | **Civil Time (Output)** |
| **1** | **1 MM** |
| **2** | **2 MM** |
| **3** | **3 MM** |
| **4** | **1 DM** |
| **5** | **2 DM** |
| **6** | **3 DM** |
| **7** | **1 NM** |
| **8** | **2 NM** |
| **9** | **3 NM** |
| **10** | **4 NM** |

**Question 1**

Earth changed their time table from 24 hours to 10 hours. Time conversion table is given. Write **javacode** of a program that asks user for military time as input and then prints the time in civil time e.g., if user gives 6 as input, then print “3 DM” as output. Do NOT use more than five “**println”. For input times outside the range 1🡪10, print “invalid”.**

**Question 2**

Draw **flowchart** of a program that asks user for two inputs (the value of **n** and **firstTerm**) and then the prints summation of the series as shown below.

Example1: If user gives **3** and **8**, then print **16** (because sum of first **THREE** terms of **EIGHT**’s series is 8-16+24 = 16).

8 - 16 + 24 - 32 + 40 - 48 …….. up to nth term

Example2: If user gives **4** and **6**, then print **-12** (because sum of first **FOUR** terms of **SIX**’s series is 6-12+18-24 = -12).

6 - 12 + 18 - 24 + 30 - 36 …….. up to nth term

**Question 3 [10 Points]**

|  |
| --- |
| **public class Q3A {** |
| **public static void main(String[] args) {** |
| **int x = 0, y =102, sum = 0;** |
| **while (y > 8){** |
| **if (sum < 40) {** |
| **sum += x \* 4 ;** |
| **} else if (sum < 50) {** |
| **sum += x \* 2;** |
| **} else {** |
| **sum += 13;** |
| **}** |
| **System.out.println(sum);** |
| **y -= 10;** |
| **x += 2;** |
| **}** |
| **}** |
| **}** |

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**OUTPUT:**

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**Note**: There may be more or less output boxes than necessary. Draw more if needed.