Assembly Language programming Project

Project Title: - "Traffic Light"

Description: - Your program should simulate the traffic lights. It has to bring the green and red signs of the traffic light

Details: -

- When program starts the **dot matrix** should be all **red**. A counter of **60** will be presented on the input screen.
- Each **second** the counter will **decrease**.
- On the **second 5** the dot matrix has to **flicker** with each of the 5 seconds.
- When the counter is **0**, the dot matrix will be **green** and a counter of **60** will be presented.
- Each **second** the counter will **decrease**.
- On the **second 5** the dot matrix has to **flicker** with each of the 5 seconds.
- When the counter is **0**, the dot matrix will be **red** and a counter of **60** will be presented.
- **Repeat**.
- **Bonus**: If the user press **0** the programs stops and then the user can **configure** the **time** in **seconds** for the **red** and **green** signs. After the users saves them the **simulation** should **start** again **immediately**.

Example:

The input screen:

60

The dot matrix:

After the first 60 seconds ends:

60

The dot matrix:

You will submit:-

- A complete flow chart for your program
- Procedures description that contains
    - Task accomplished by the procedure
    - List of input parameters and their usage
    - Description of any value calculated/returned by the procedure
    - Preconditions that must be satisfied before the procedure is called