

**ALGORITHM AND PROGRAMMING PRACTICE**  
**CONDITIONAL ITERATION**



**BY:**

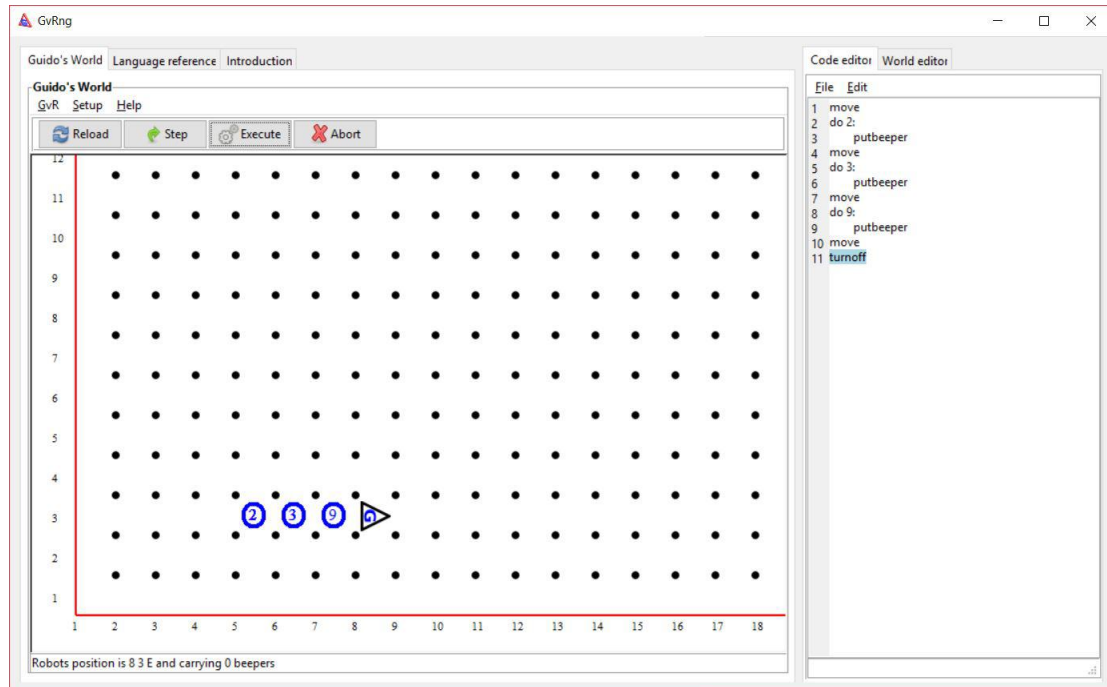
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**L200194239**

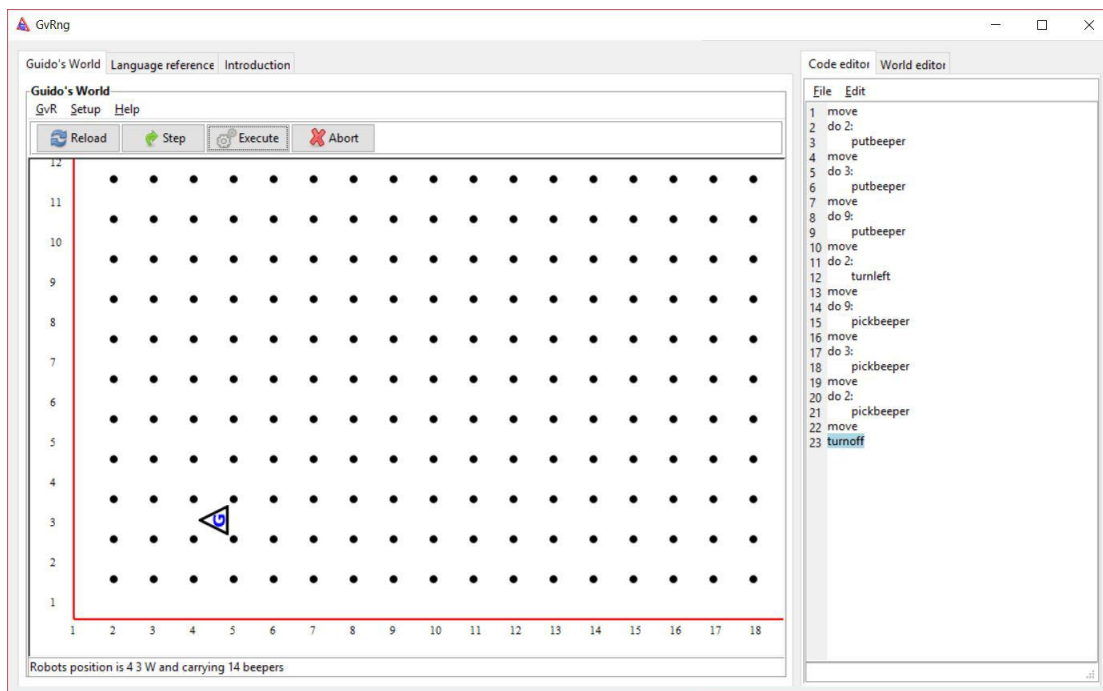
**INFORMATION TECHNOLOGY**  
**FACULTY OF COMMUNICATON AND INFORMATICS**  
**MUHAMMADIYAH UNIVERSITY OF SURAJARTA**  
**2019/2020**

## Task 1:

Screenshot from GvRng window after the program writes the last 3 digits number from my NIM:

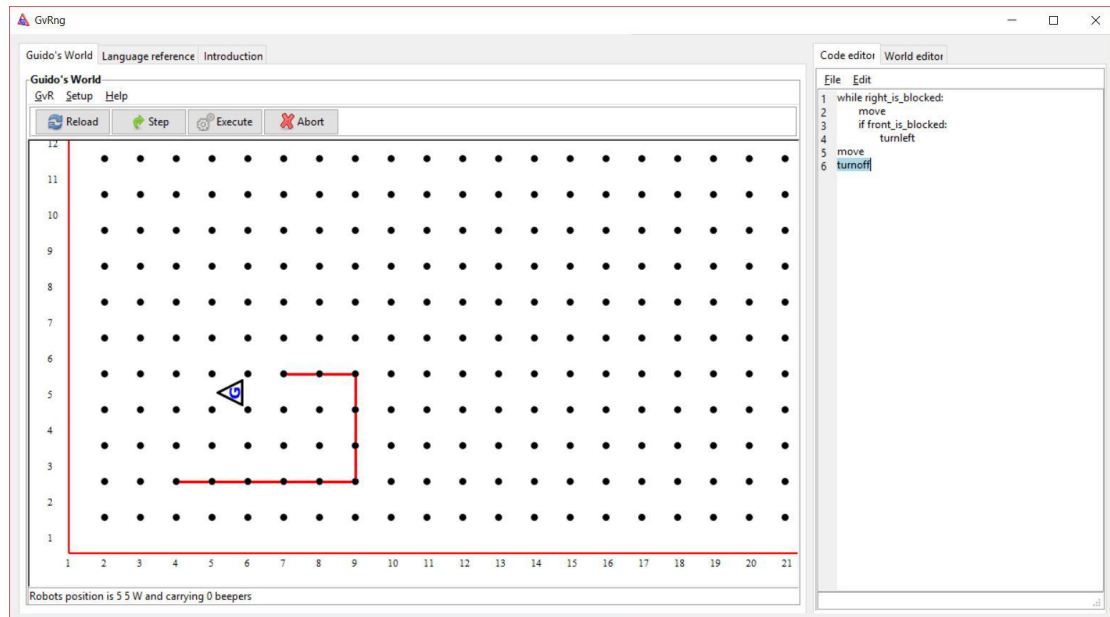


Screenshot from GvRng window after give instruction to take all the beepers:

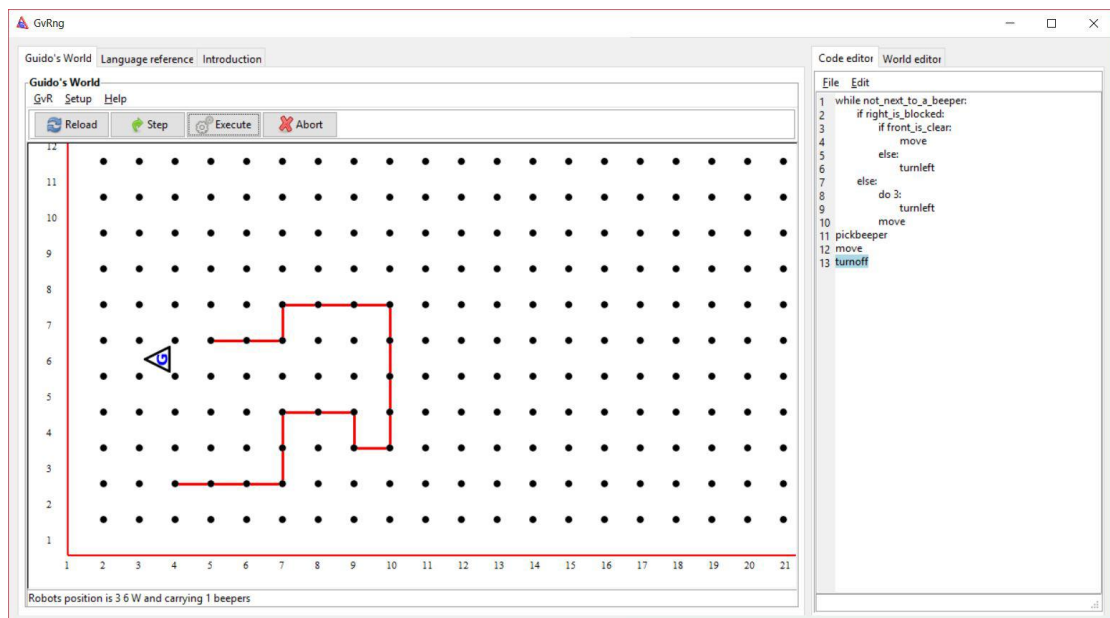


## Task 2:

Program with line follower to the left:



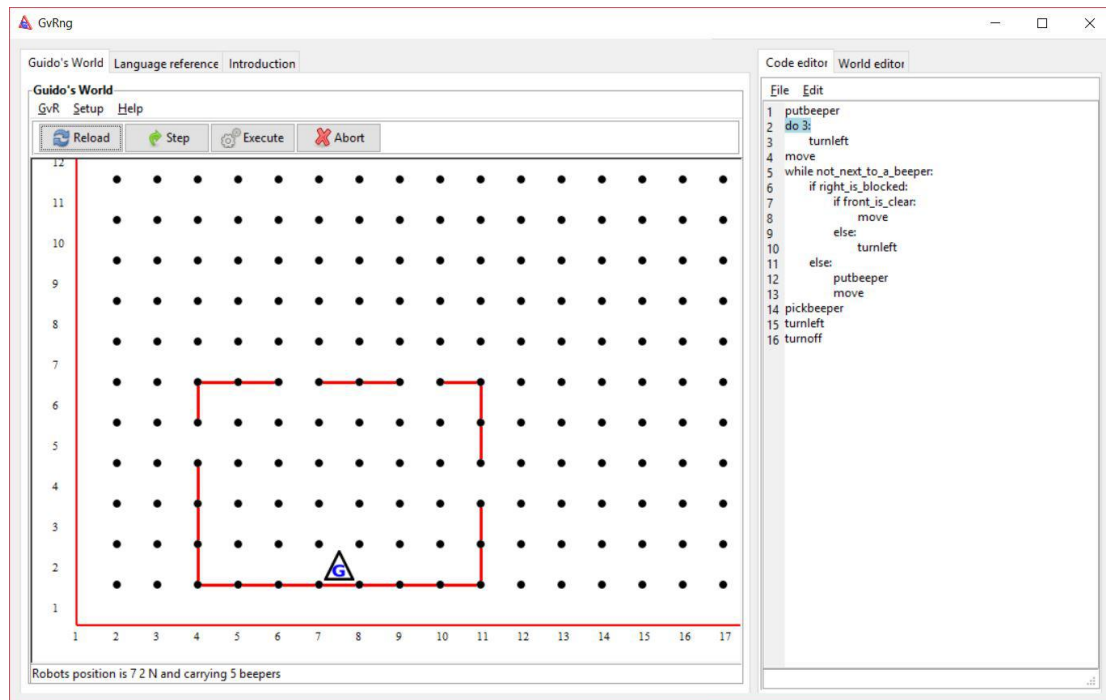
Program with line follower to the left and right:



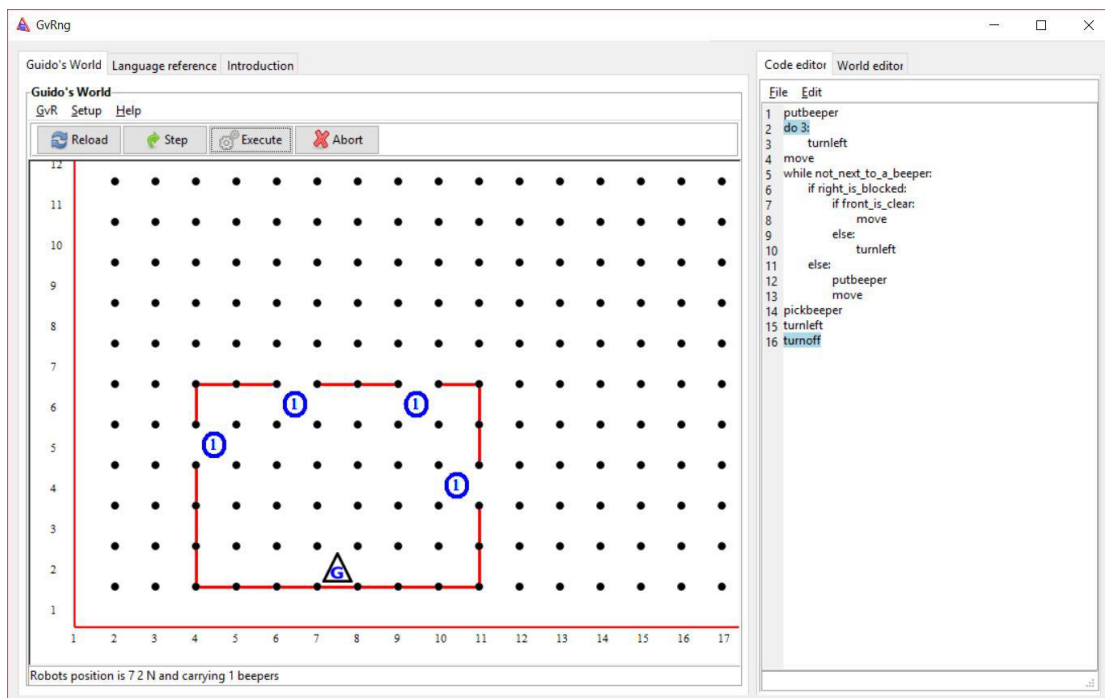
### Task 3:

Closing the door and window program by me:

Before the program start:

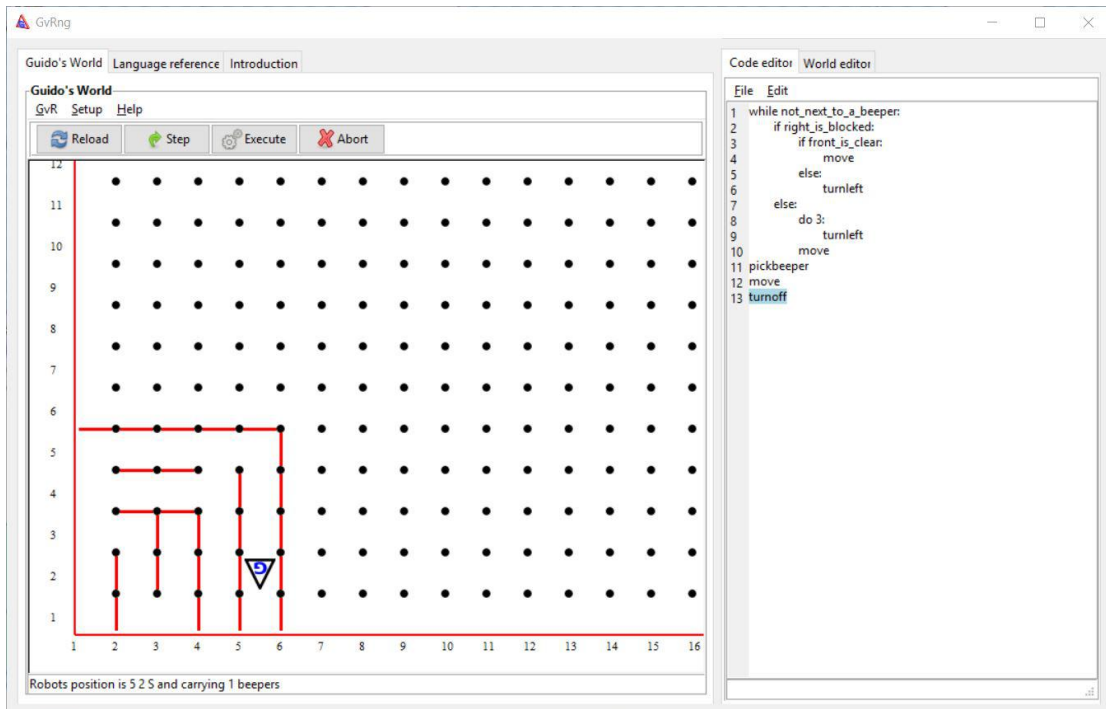


After the program finish:



#### Task 4:

Conclusion from program (5 - 10 sentences):



While the robot is not next to a beeper, and if the right way is blocked by something and if in front of is clear, so the instruction will tell to move away. But, if in front of is blocked by something, the instruction will tell to turnleft and also turnleft three consecutive times. Then move to the front and pick the beeper that already in the program since the start, move again and turnoff. The program already finish.