

ALGORITMA DAN PEMROGRAMAN

FUNGSI



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KEGIATAN 4.

The image displays two screenshots of the GvRng software interface, which is used for simulating a robot's movement in a grid world. The interface is divided into several sections:

- Top Left:** Contains the title "Guido's World" and tabs for "Language reference" and "Introduction". Below these are buttons for "GvR", "Setup", and "Help". A control bar includes "Reload", "Step", "Execute", and "Abort" buttons.
- Center:** A 20x13 grid world. The robot, represented by a blue arrow, is at position (13, 4). The grid contains several blue circles representing beepers. The status bar at the bottom of the grid indicates "Robots position is 13.4 E and carrying 0 beepers".
- Top Right:** A "Code editor" window with a "File" menu and a "World editor" tab. It displays a list of commands for the robot's path.

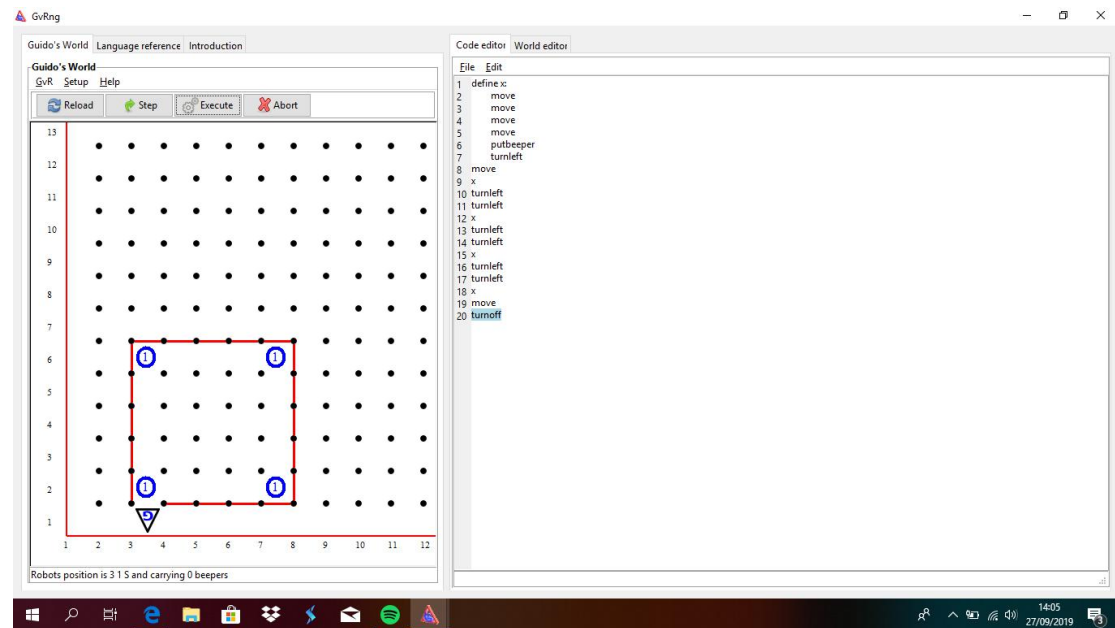
First Screenshot (Top): The code editor shows a sequence of commands for the robot's path, including coordinates (x, y), movement commands (move), and turning commands (turnleft). The path starts at (13, 4) and ends at (13, 1).

```
47 x
48 x
49 x
50 x
51 y
52 x
53 turnleft
54 turnleft
55 move
56 x
57 move
58 move
59 turnleft
60 x
61 turnleft
62 turnleft
63 move
64 turnleft
65 x
66 x
67 move
68 turnleft
69 x
70 x
71 x
72 x
73 x
74 move
75 turnleft
76 x
77 x
78 move
79 turnleft
80 x
81 x
82 move
83 turnleft
84 x
85 x
86 turnleft
```

Second Screenshot (Bottom): The code editor shows a more complex sequence of commands, including coordinate definitions (define x, define y), movement commands (move), and turning commands (turnleft). The path starts at (13, 4) and ends at (13, 1).

```
1 define x:
2 move
3 putbeeper
4 define y:
5 turnleft
6 turnleft
7 turnleft
8 x
9 x
10 move
11 turnleft
12 x
13 x
14 move
15 turnleft
16 x
17 x
18 move
19 turnleft
20 x
21 x
22 move
23 y
24 x
25 x
26 move
27 y
28 x
29 x
30 move
31 y
32 x
33 x
34 turnleft
35 move
36 move
37 turnleft
38 x
39 y
40 move
```

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KEGIATAN 6.

GuiRng

Guido's World Language reference Introduction

GuiR Setup Help

Reload Step Execute Abort

Robots position is 2 4 E and carrying 0 beepers

Code editor World editor

```
File Edit
1 define x:
2   move
3   turnleft
4   move
5   putbeeper
6   turnleft
7   turnleft
8   move
9   turnleft
10  move
11  define y:
12    turnleft
13    turnleft
14    turnleft
15  move
16  x
17  move
18  x
19  move
20  x
21  y
22  move
23  y
24  x
25  move
26  x
27  move
28  x
29  move
30  y
31  move
32  y
33  turnoff
```

Windows taskbar: 14:05 27/09/2019