

# Praktikum Algoritma dan Pemograman

## Modul 3

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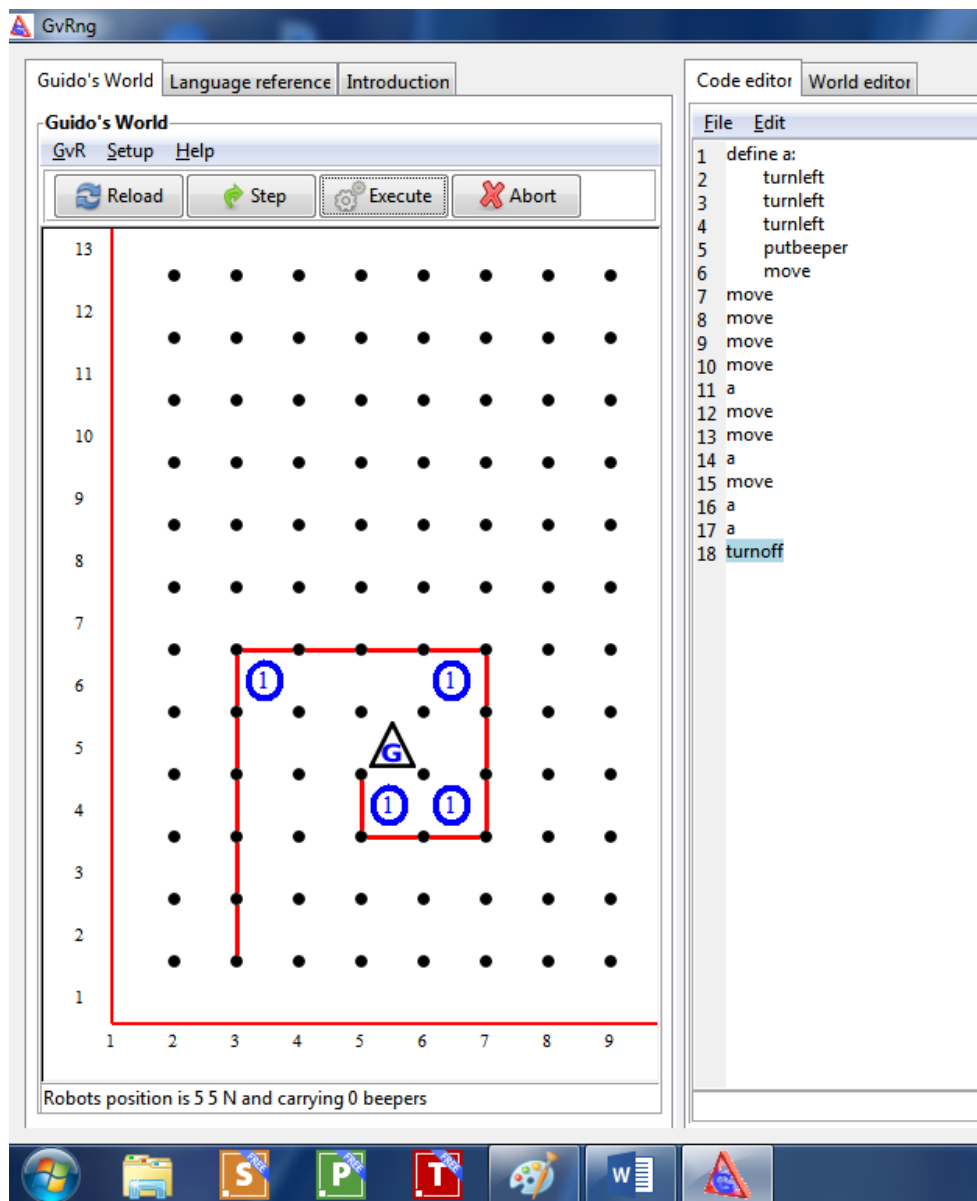
Kegiatan 1:

The screenshot displays the Guido's World software interface. The main window is titled "Guido's World" and contains a 13x9 grid. The robot, represented by a blue triangle with a 'G', is positioned at (5,5). A red path is drawn on the grid, starting from (1,1) and ending at (5,5). The path consists of a vertical line from (1,1) to (1,13), a horizontal line from (1,13) to (3,13), a vertical line from (3,13) to (3,6), a horizontal line from (3,6) to (7,6), a vertical line from (7,6) to (7,4), a horizontal line from (7,4) to (5,4), a vertical line from (5,4) to (5,5), and a horizontal line from (5,5) to (3,5). The status bar at the bottom indicates "Robots position is 5 5 N and carrying 0 beepers".

Code editor:

```
1 define m1:
2   move
3   turnleft
4   turnleft
5   turnleft
6   move
7   move
8   move
9   move
10  m1
11  move
12  move
13  m1
14  move
15  m1
16  m1
17  move
18  turnoff
```

## Kegiatan 2:



### Kegiatan 3:

Jumlah Beeper pada program saya: 27

Jumlah baris instruksi pada program sesuai template: 54

Guido's World

Language reference Introduction

Gr Setup Help

Reload Step Execute Abort

Robots position is 10 6 E and carrying 0 beepers

```
1 define k1:
2   turnleft
3   turnleft
4   turnleft
5 define k2:
6   move
7   putbeeper
8   move
9   putbeeper
10  move
11  putbeeper
12  move
13  putbeeper
14  k1
15  move
16  putbeeper
17  move
18  putbeeper
19  k1
20  move
21  putbeeper
22  move
23  putbeeper
24  turnleft
25  move
26  putbeeper
27  k2
28  turnleft
29  k2
30  k2
31  move
32  k2
33  turnleft
34  k2
35  k2
36  k2
37  k2
```

Guido's World

Language reference Introduction

Gr Setup Help

Reload Step Execute Abort

Robots position is 10 6 E and carrying 0 beepers

```
26 putbeeper
27 k2
28 turnleft
29 k2
30 k2
31 move
32 k2
33 turnleft
34 k2
35 k2
36 k2
37 k2
38 k1
39 move
40 k1
41 move
42 move
43 move
44 move
45 turnleft
46 k2
47 k2
48 k2
49 turnleft
50 k2
51 k2
52 turnleft
53 k2
54 k2
55 k1
56 k2
57 k2
58 k1
59 k2
60 k2
61 turnoff
```

## Kegiatan 4:

uido's World

Language reference

Introduction

uido's World

GvR Setup Help

Reload

Step

Execute

Abort

12

11

10

9

8

7

6

5

4

3

2

1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

1

lobots position is 15 1 E and carrying 0 beepers

Code editor

World editor

File Edit

```

1  define kanan:
2      turnleft
3      turnleft
4      turnleft
5  define maju:
6      move
7      move
8      move
9  define k1:
10     move
11     putbeeper
12
13
14 k1
15 k1
16 move
17 turnleft
18 k1
19 turnleft
20 maju
21 putbeeper
22 kanan
23 k1
24 kanan
25 maju
26 putbeeper
27 turnleft
28 move
29 turnleft
30 k1
31 k1
32 move
33 kanan
34 move
35 putbeeper
36 kanan
37 maju

```

uido's World

Language reference

Introduction

uido's World

GvR Setup Help

Reload

Step

Execute

Abort

12

11

10

9

8

7

6

5

4

3

2

1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

1

lobots position is 15 1 E and carrying 0 beepers

Code editor

World editor

File Edit

```

37 maju
38 putbeeper
39 turnleft
40 k1
41 turnleft
42 maju
43 putbeeper
44 kanan
45 move
46 kanan
47 k1
48 k1
49 maju
50 k1
51 kanan
52 k1
53 kanan
54 k1
55 turnleft
56 move
57 turnleft
58 k1
59 kanan
60 k1
61 k1
62 k1
63 kanan
64 move
65 turnleft
66 k1
67 turnleft
68 move
69 putbeeper
70 move
71 putbeeper
72 move
73 turnleft

```

uido's World

Language reference

Introduction

uido's World

ivR

Setup

Help

Reload

Step

Execute

Abort

12

11

10

9

8

7

6

5

4

3

2

1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

1

bots position is 15 1 E and carrying 0 beepers

Code editor

World editor

File

Edit

74 maju

75 maju

76 kanan

77 move

78 k1

79 k1

80 move

81 kanan

82 k1

83 kanan

84 maju

85 putbeeper

86 turnleft

87 k1

88 move

89 turnleft

90 k1

91 k1

92 k1

93 turnleft

94 k1

95 turnleft

96 turnleft

97 move

98 k1

99 k1

100kanan

101maju

102putbeeper

103turnleft

104move

105turnleft

106k1

107k1

108move

109move

110turnoff

...

Jumlah baris instruksi pada program saya berjumlah 110

## Kegiatan 5:

Guido's World

Language reference Introduction

Guido's World

GVR Setup Help

Reload Step Execute Abort

12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1

1 2 3 4 5 6 7 8 9 10 11

Robots position is 2 1 S and carrying 0 beepers

Code editor World editor

File Edit

```
1 define maa:
2   do 4:
3     move
4     putbeeper
5     turnleft
6 define mii:
7   move
8   move
9 move
10 do 3:
11   turnleft
12 do 3:
13   maa
14 mii
15 mii
16 putbeeper
17 move
18
```

## Kegiatan 6:

Guido's World

[Language reference](#)
[Introduction](#)

[GvR](#)
[Setup](#)
[Help](#)

Reload

Step

Execute

Abort

12

11

10

9

8

7

6

5

4

3

2

1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Robots position is 1 3 W and carrying 0 beepers

Code editor

World editor

File

Edit

```

1  define k1:
2      move
3      move
4  define k2:
5      move
6      turnleft
7      move
8      putbeeper
9      turnleft
10     turnleft
11     move
12     turnleft
13  define k3:
14     move
15     turnleft
16     turnleft
17     turnleft
18  move
19  k2
20  k1
21  k2
22  k1
23  k2
24  k3
25  k3
26  k2
27  k1
28  k2
29  k1
30  k2
31  k1
32  move
33  turnoff

```

