

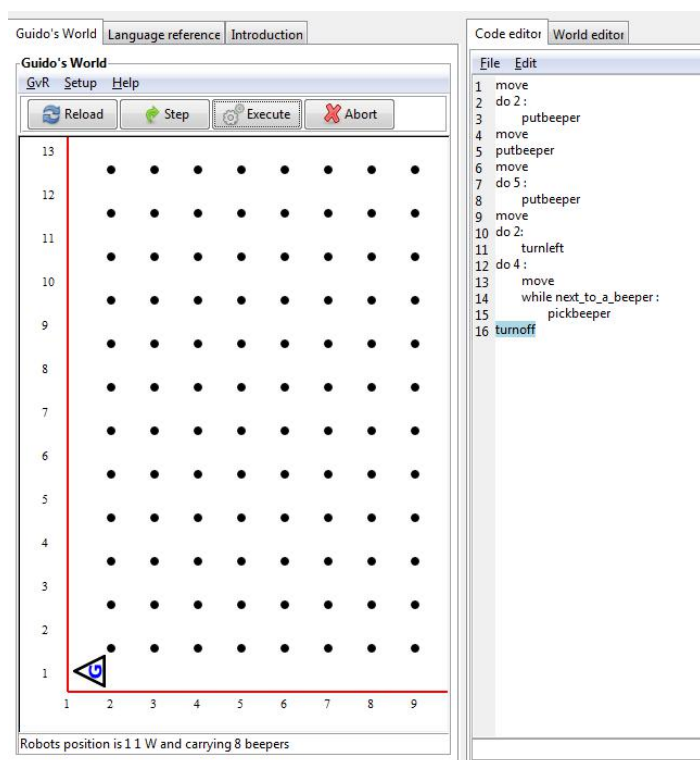
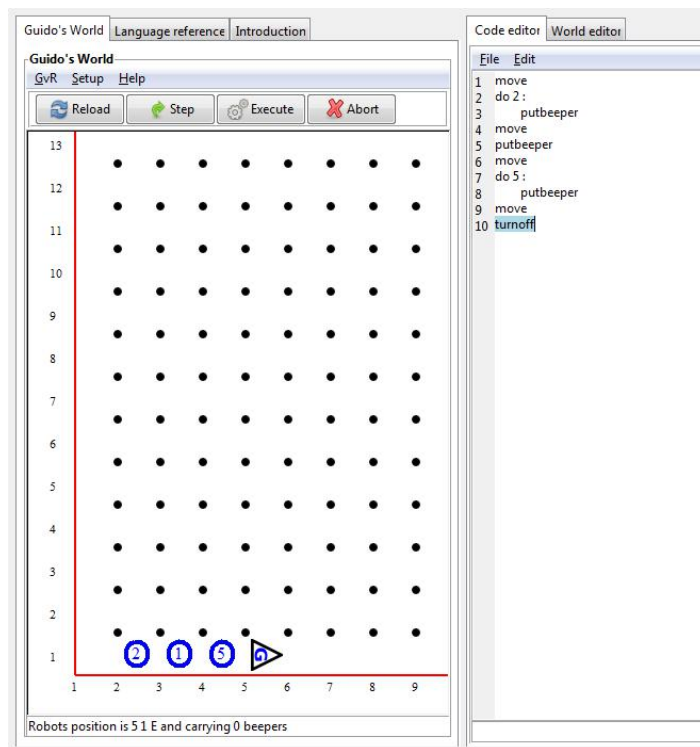
Praktikum Algoritma dan Pemograman

Modul 5

Nama :Sekar Tyas Mawarni

Nim : L200190215

Latihan 1:



Latihan 2:

Guido's World

Language reference

Introduction

Guido's World

GvR

Setup

Help

Reload

Step

Execute

Abort

Robots position is 2 2 E and carrying 0 beepers

Code editor

World editor

File

Edit

```

1 while right_is_blocked:
2     if front_is_clear:
3         move
4     else:
5         turnleft
6         if next_to_a_beeper:
7             turnoff
8
9     if right_is_clear:
10        do 3:
11            turnleft
12            move
13

```

Guido's World

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Abort

Robots position is 2 5 W and carrying 0 beepers

Code editor

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File Edit

```

1 while right_is_blocked:
2   if front_is_clear:
3     move
4   else:
5     turnleft
6   if next_to_a_beeper:
7     turnoff
8
9   if right_is_clear:
10    do 3:
11      turnleft
12      move
13

```

Latihan 3:

Guido's World Language reference Introduction

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GvR Setup Help

Reload Step Execute Abort

Robots position is 5 2 N and carrying 1 beepers

Code editor World editor

File Edit

```
1 putbeeper
2 do 3:
3   turnleft
4   while right_is_blocked:
5     if front_is_clear:
6       move
7     else:
8       turnleft
9   if right_is_clear:
10    putbeeper
11    move
12    if next_to_a_beeper:
13      pickbeeper
14      turnleft
15      turnoff
16
```

Sesudah dimodifikasi:

Guido's World Language reference Introduction

Guido's World
GvR Setup Help

Reload Step Execute Abort

Robots position is 5 2 N and carrying 1 beepers

Code editor World editor

File Edit

```
1 putbeeper
2 do 3:
3   turnleft
4   while right_is_blocked:
5     if front_is_clear:
6       move
7     else:
8       turnleft
9   if right_is_clear:
10    putbeeper
11    move
12    if next_to_a_beeper:
13      pickbeeper
14      turnleft
15      turnoff
16
```

Latihan 4:

Guido's World Language reference Introduction

Code editor World editor

File Edit

```
1 while not_next_to_a_beeper:
2   if right_is_blocked:
3     if front_is_clear:
4       move
5     else:
6       turnleft
7   else:
8     turnleft
9     turnleft
10    turnleft
11    move
12 pickbeeper
13 turnoff
```

Guido's World

GvR Setup Help

Reload Step Execute Abort

Robots position is 1 4 E and carrying 0 beepers

Guido's World Language reference Introduction

Code editor World editor

File Edit

```
1 while not_next_to_a_beeper:
2   if right_is_blocked:
3     if front_is_clear:
4       move
5     else:
6       turnleft
7   else:
8     turnleft
9     turnleft
10    turnleft
11    move
12 pickbeeper
13 turnoff
```

Guido's World

GvR Setup Help

Reload Step Execute Abort

Robots position is 5 3 S and carrying 1 beepers

Algoritma:

Judul : Algoritma Robot Penjinak Bom

Keterangan :Membuat Robot Guido mencari Bom yang berada di dalam gedung dan menjinakannya.

Langkah :

1. Selama di depan tidak ada koin maka:
 - Jika di sebelah kanan terdapat penghalang:
 - Jika di depan bersih
Maka lakukan gerakan maju
 - Jika di depan terdapat penghalang
Maka lakukan belok kiri
 - Jika di sebelah kanan bersih:
Maka belok kanan(belok kiri 3x)
Lalu lakukan gerakan maju
2. Jika di depan terdapat koin maka:
 - Ambil koin dan berhenti.