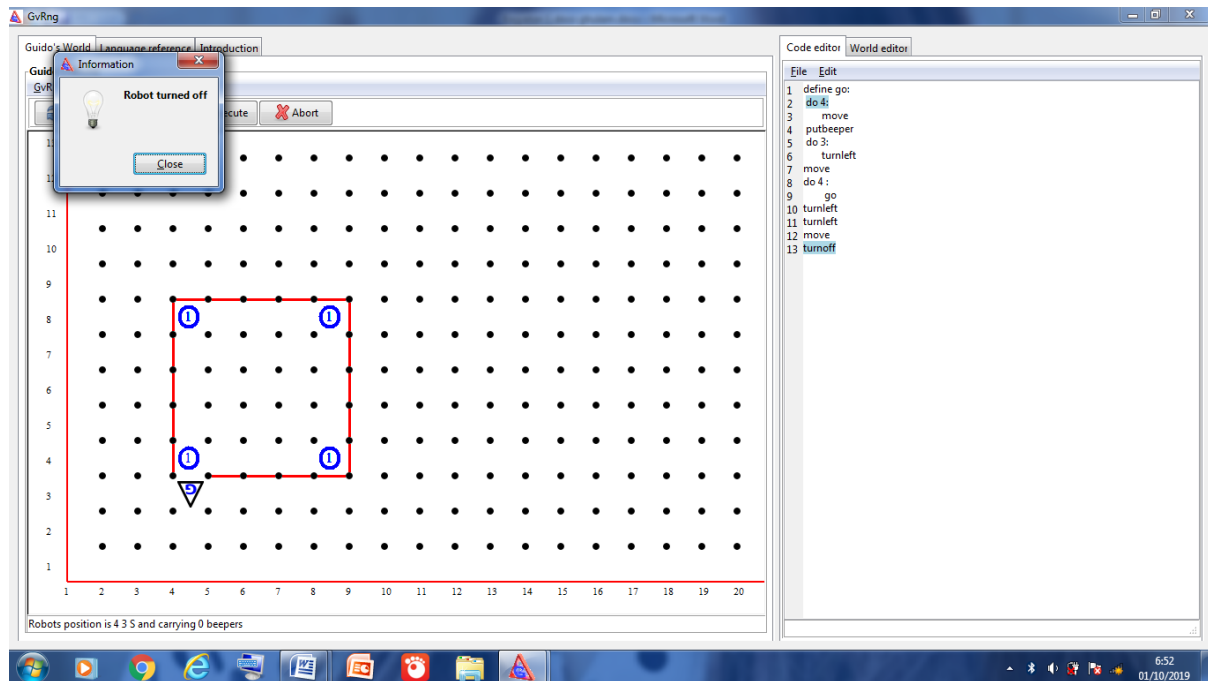Kegitan 1

Berikut adalah program tidak lebih dari 20 baris yang saya buat :

define go:

  do 4:

     move

  putbeeper

  do 3:

     turnleft
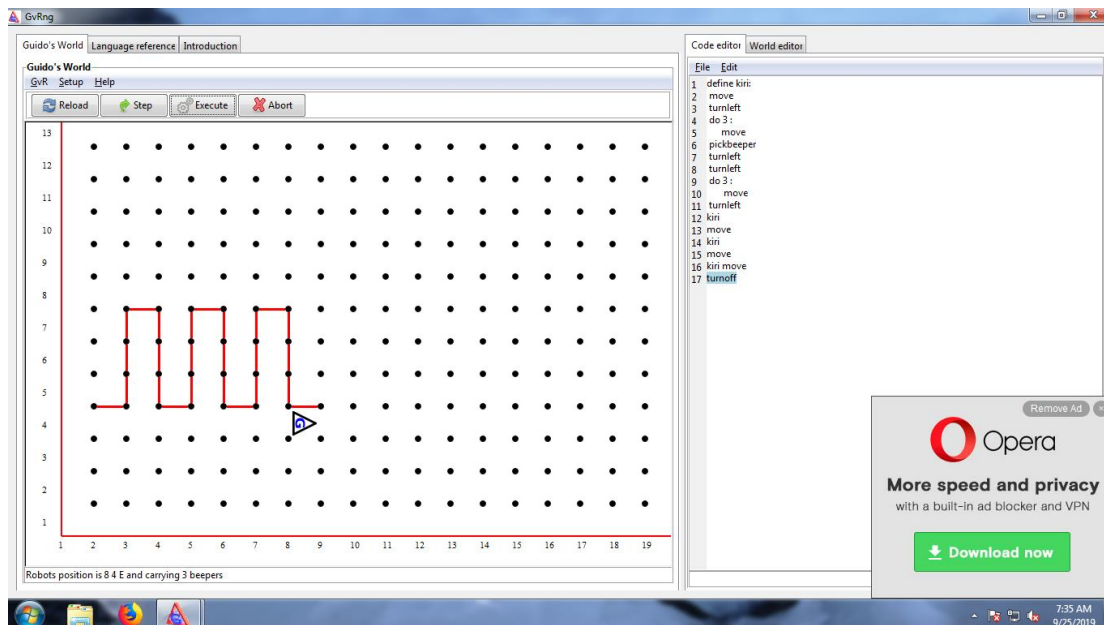
move

do 4 :

       go

turnleft

turnleft

move

turnoff

Kegiatan 2

Berikut adalah program tidak lebih dari 19 baris yang saya buat :

Code   word code

define kiri:

 move

 turnleft

 do 3 :

     move

 pickbeeper

 turnleft

 turnleft

 do 3 :

     move

 turnleft

kiri

move

kiri

move

kiri move

Turnoff

word code

robot 2 4 E 0

beepers 3 7 1

beepers 5 7 1

beepers 7 7 1

wall 2 4 N

wall 2 5 E

wall 2 6 E

wall 2 7 E

wall 3 7 N

wall 3 7 E

wall 3 6 E

wall 3 5 E

wall 4 4 N

wall 4 5 E

wall 4 6 E

wall 4 7 E

wall 5 7 N

wall 5 7 E

wall 5 6 E

wall 5 5 E

wall 6 4 N

wall 6 5 E

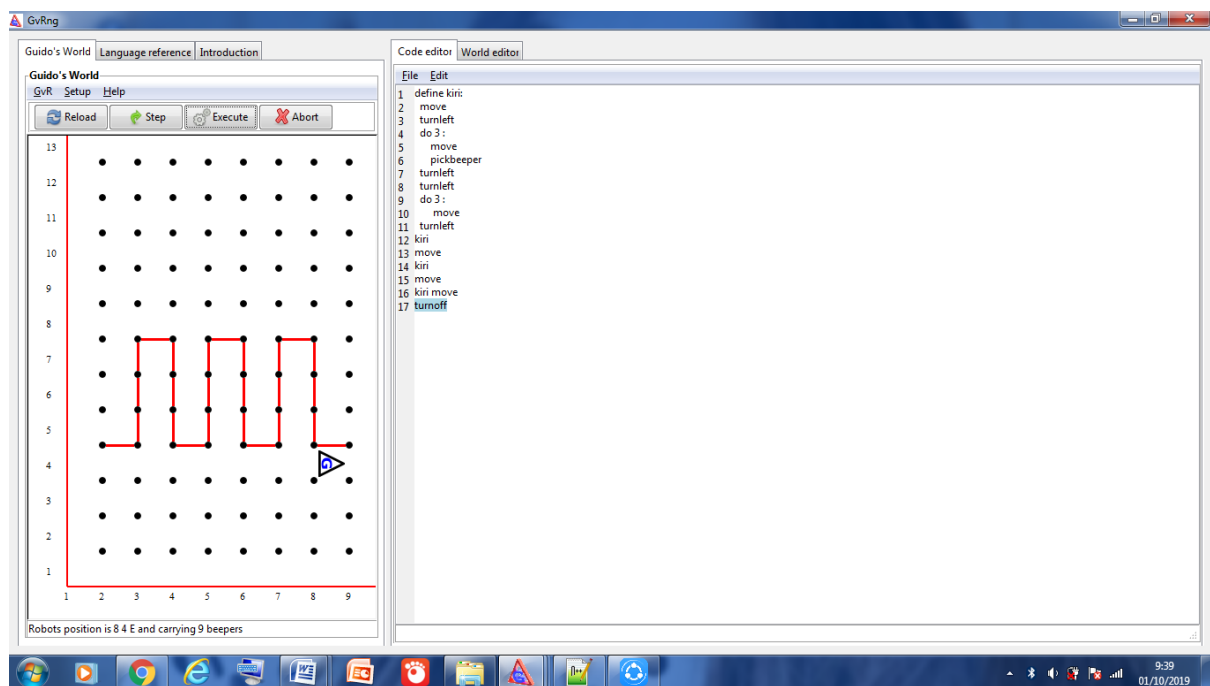wall 6 6 E

wall 6 7 E

wall 7 7 N

wall 7 7 E

wall 7 6 E

wall 8 4 N

wall 7 5 E

Kegiatan 3

Berikut adalah program yang elah dimodifikasi:


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

Robots position is 8 4 E and carrying 9 beepers

Code

```
define kiri:
  move
  turnleft
  do 3 :
      move
      pickbeeper
  turnleft
  turnleft
  do 3 :
      move
  turnleft
kiri
move
kiri
move
kiri move
turnoff
```

Word code

robot 2 4 E 0

beepers 3 5 1

beepers 3 6 1

beepers 3 7 1

beepers 5 5 1

beepers 5 6 1

beepers 5 7 1

beepers 7 5 1

beepers 7 6 1

beepers 7 7 1

wall 2 4 N

wall 2 5 E

wall 3 5 E

wall 3 6 E

wall 3 7 E

wall 2 7 E

wall 2 6 E

wall 3 7 N

wall 4 4 N

wall 4 5 E

wall 4 6 E

wall 4 7 E

wall 5 7 N

wall 5 7 E

wall 5 6 E

wall 5 5 E

wall 6 4 N

wall 6 5 E

wall 6 6 E

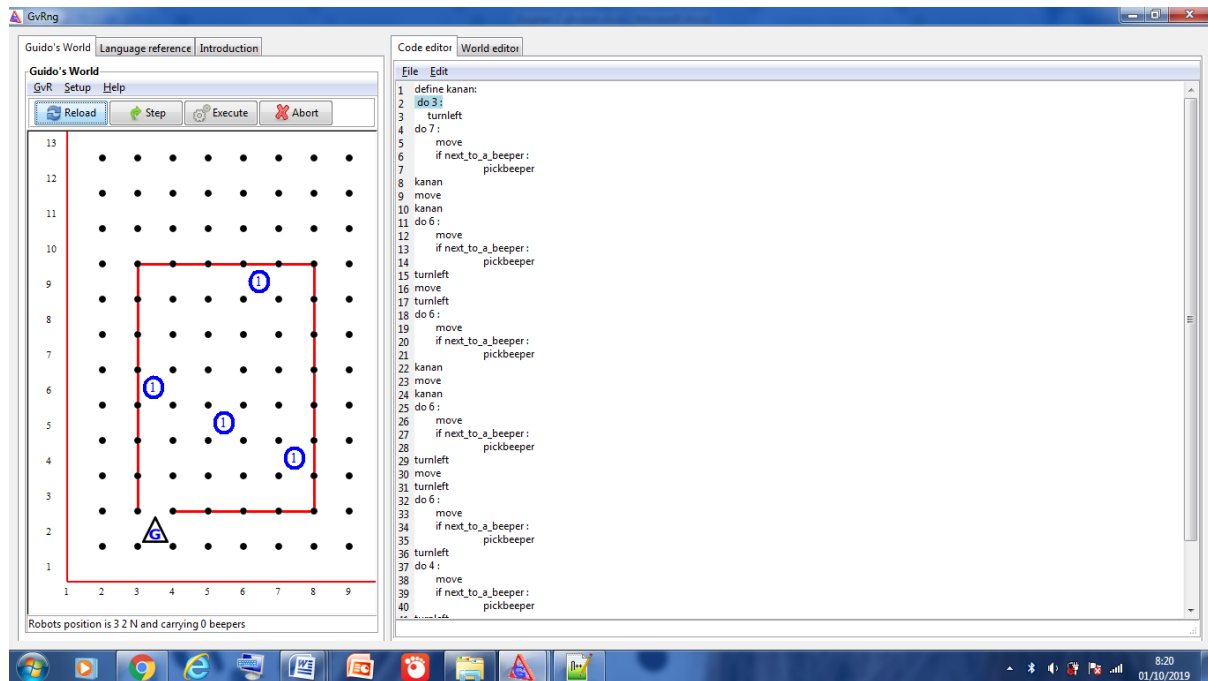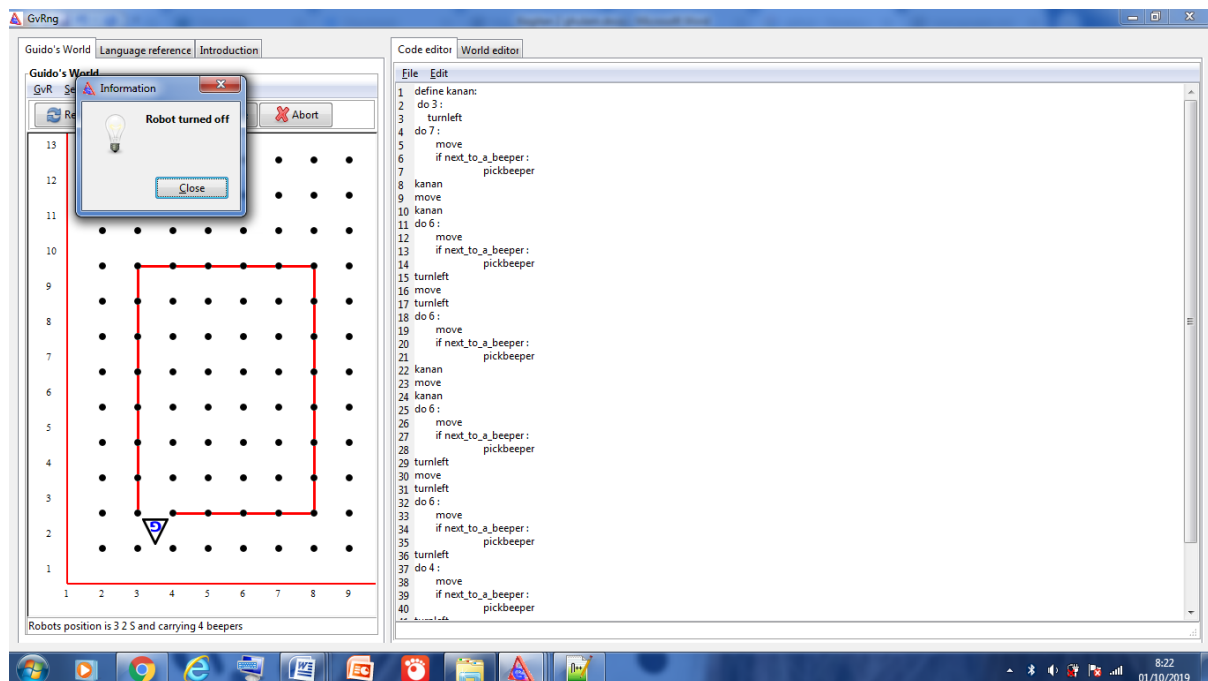wall 6 7 E

wall 7 7 N

wall 7 7 E

wall 7 6 E

wall 7 5 E

wall 8 4 N

kegiatan 4

Berikut adalah screen shot window GvRng, sebelum program dijalankan

Berikut adalah screen shot window GvRng, setelah program dijalankan

listing program adalah sebagai berikut:

```
code

define kanan:

 do 3 :

    turnleft

do 7 :

        move

        if next_to_a_beeper :

                pickbeeper

kanan

move

kanan

do 6 :

        move

        if next_to_a_beeper :

                pickbeeper

turnleft

move

turnleft

do 6 :

        move

        if next_to_a_beeper :

                pickbeeper

kanan

move

kanan

do 6 :

        move
```

```
        if next_to_a_beeper :

                pickbeeper

turnleft

move

turnleft

do 6 :

        move

        if next_to_a_beeper :

                pickbeeper

turnleft

do 4 :

        move

        if next_to_a_beeper :

                pickbeeper

turnleft

do 7 :

        move

turnoff

word code

robot 3 2 N 0

beepers 3 6 1

beepers 5 5 1

beepers 6 9 1

beepers 7 4 1

wall 2 3 E

wall 2 4 E

wall 2 5 E
```

wall 2 6 E

wall 2 7 E

wall 2 8 E

wall 2 9 E

wall 3 9 N

wall 4 9 N

wall 5 9 N

wall 6 9 N

wall 7 9 N

wall 7 9 E

wall 7 8 E

wall 7 7 E

wall 7 6 E

wall 7 5 E

wall 7 4 E

wall 7 3 E

wall 7 2 N

wall 6 2 N

wall 5 2 N

wall 4 2 N