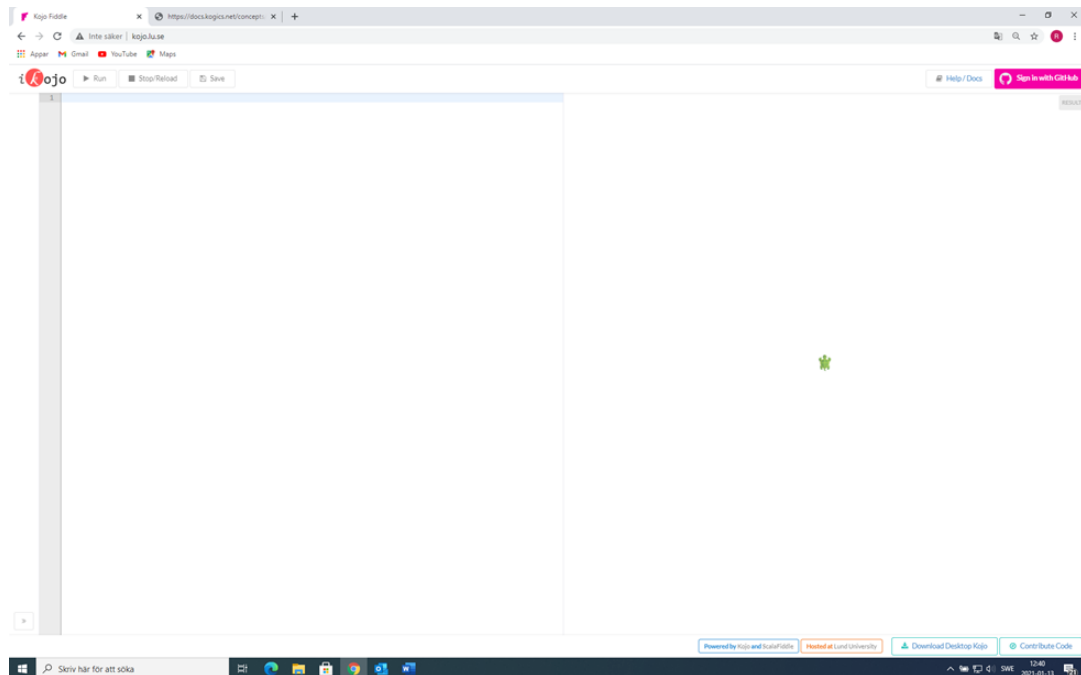


Appendix - workbook - (challenges 1-8)

Programming with Kojo

Welcome to kojo.

You find a web version at: <http://ikojo.in/>



Your first program

Write the following code in the kojo editor window, press the green button and try out!

clear

forward

left

forward

Use the following commands:

forward; right; left

challenge 1: make a square

challenge 2: make a stair with several stairsteps

make a loop

write in the editor:

```
repeat (3) { forward; left }
```

What happens? Change your code for a square!

challenge 3: make a stair with 8 stairsteps

challenge 4: make a stair with 12 steps which go down to the left!

challenge 5: Control your turtle with the following sequence:

Sequence 1	Sequence 2	Sequence 3 (write your own sequence and test)	Sequence 4 (write your own sequence and test)
forward right forward left forward right forward left	backward() right forward forward right backward() left forward forward forward left		

simplify the code using the repeat command and test in kojo:

```
forward; right; right; forward; forward; left; forward; forward; forward; backward() ;  
backward(); right; forward; forward; forward; right; forward; forward; forward; forward; forward;  
forward; forward
```

enter your code directly in kojo: use `repeat () { }`

```
forward; repeat(2){right}; repeat(2){forward} ...
```

Do you want to take longer steps with the turtle?

The command `forward` lets the turtle move 25 steps forward.

```
forward(100)
```

the turtle does 100 steps.

A few more commands / Having fun with the turtle:

challenge 7:

write the following code :

```
clear
```

```
forward (100)
```

```
circle (50)
```

```
hop(200)
```

```
write(" your name ")
```

challenge 8:

Now draw a picture of your choice, maybe a car or a face or something else.
Use the different commands you learned before.