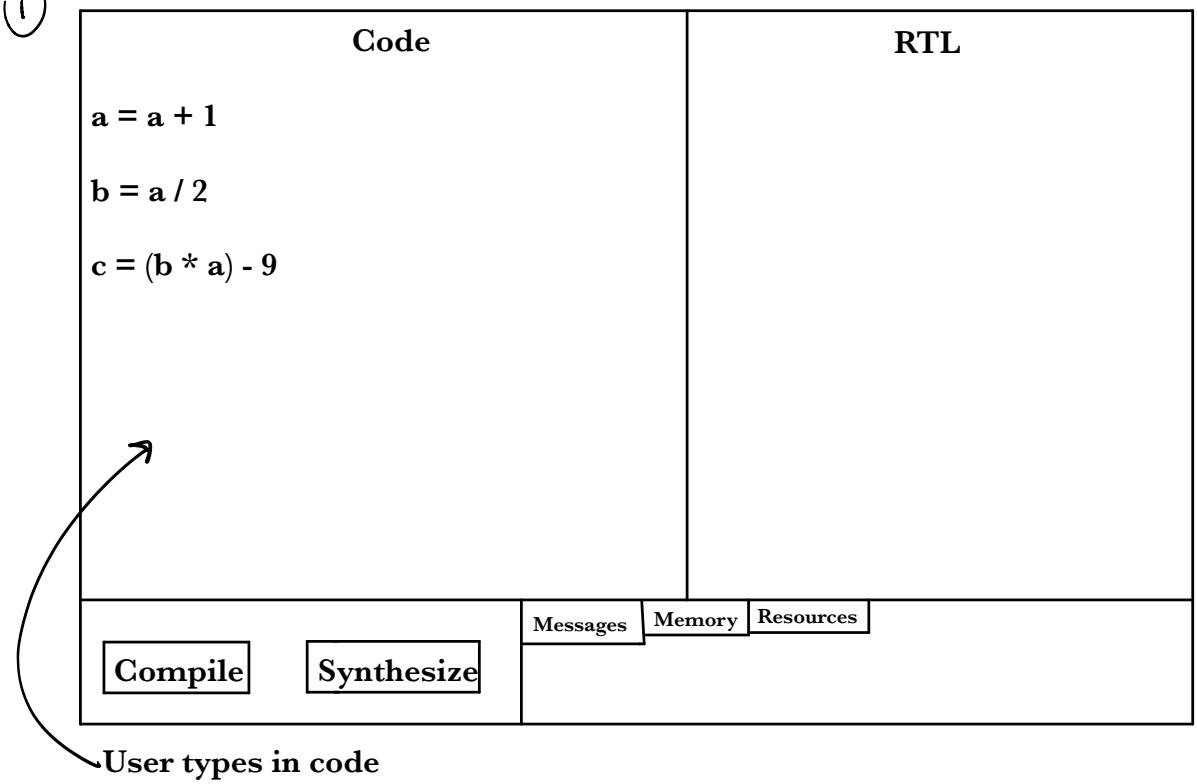
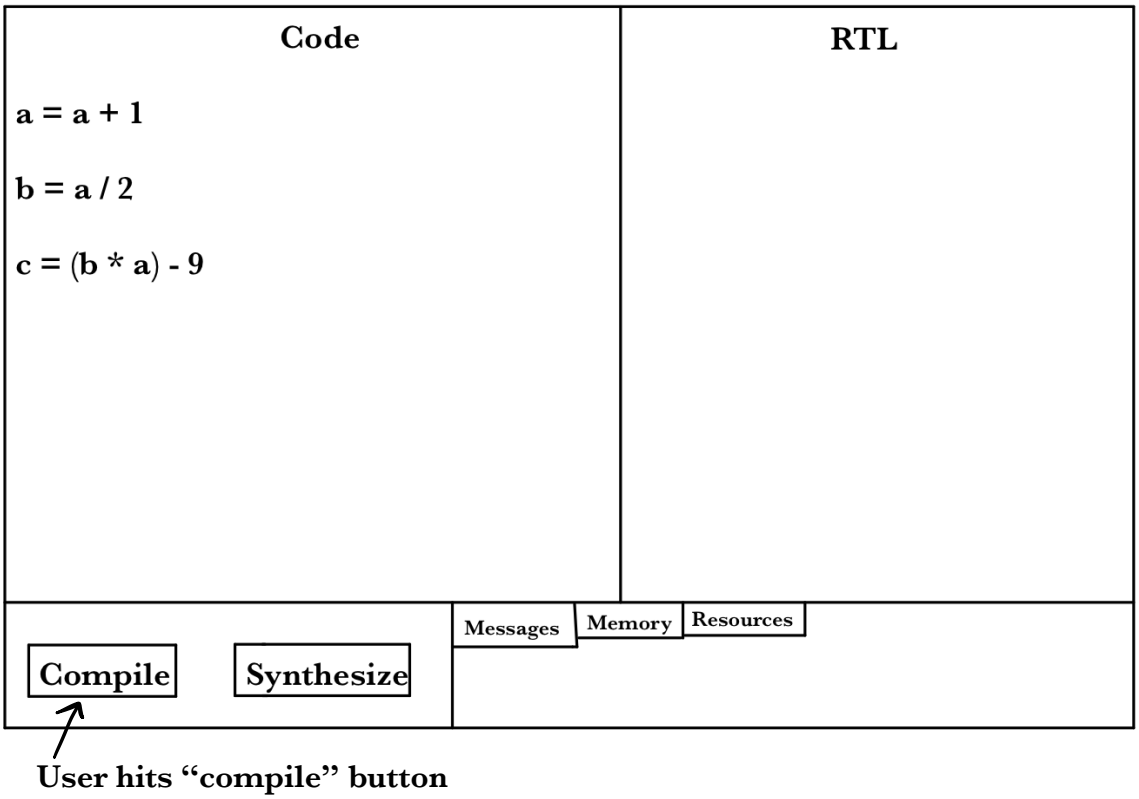
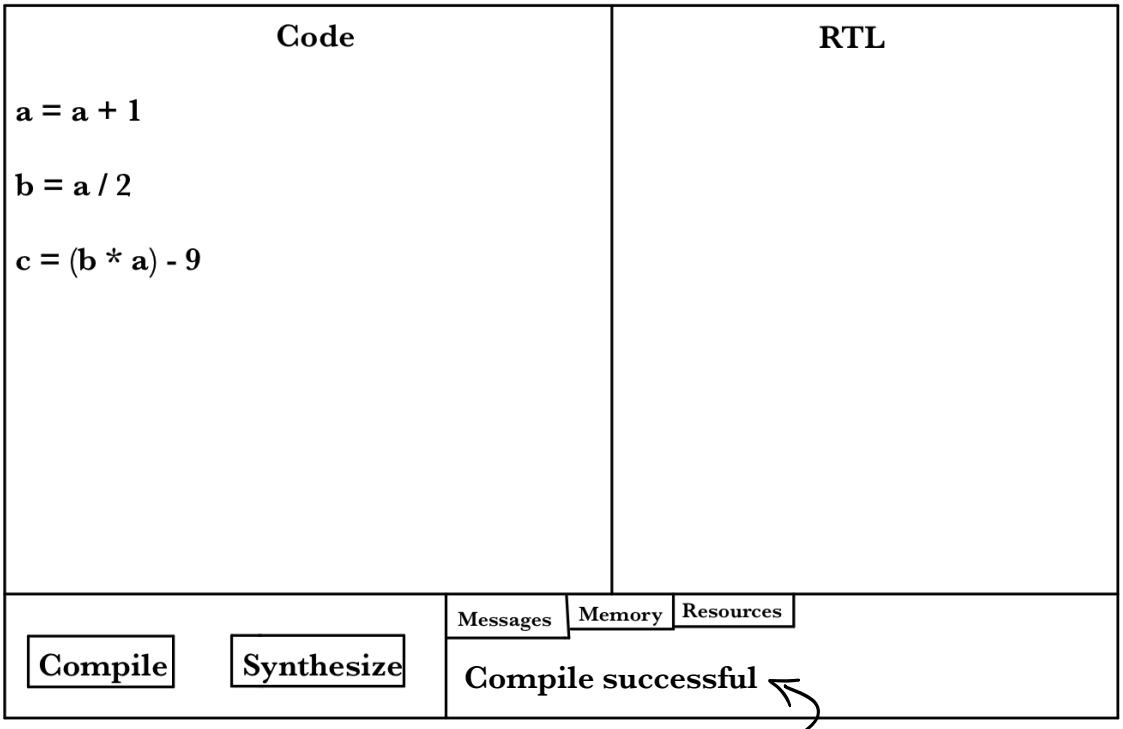
1


Code
RTL
a = a + 1
b = a / 2
c = (b * a) - 9
Messages
Memory
Resources
Compile
Synthesize
User types in code

2

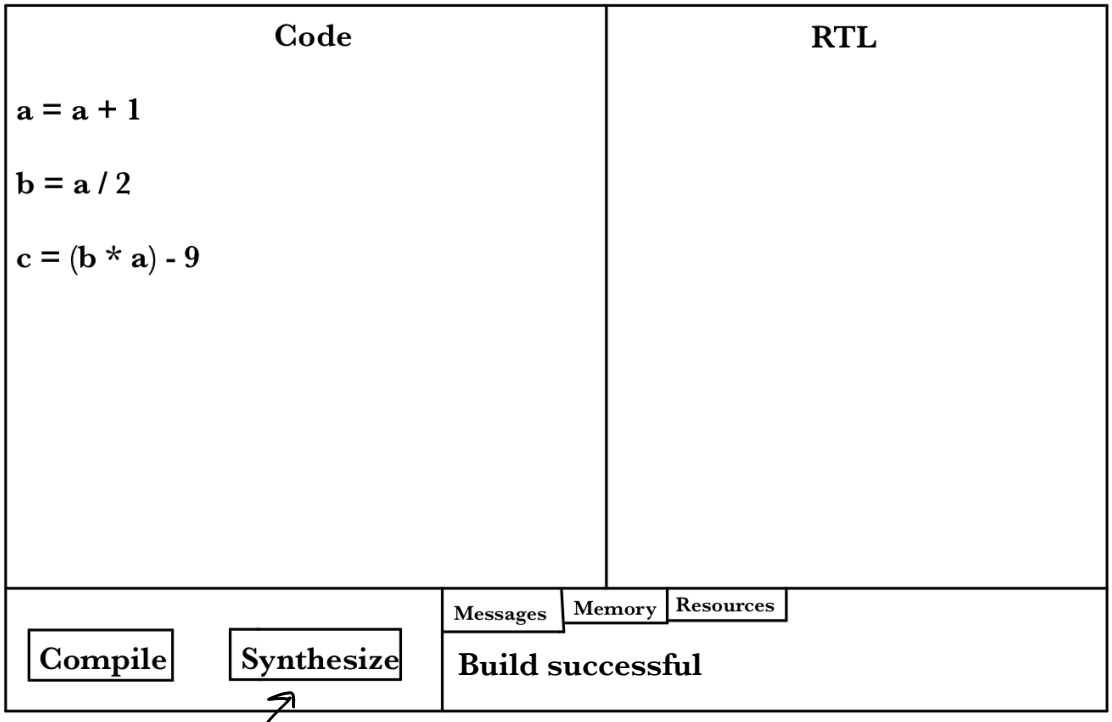

Code
RTL
a = a + 1
b = a / 2
c = (b * a) - 9
Messages
Memory
Resources
Compile
Synthesize
User hits “compile” button

3



Shows user compile messages

4



User hit “synthesize” button

5

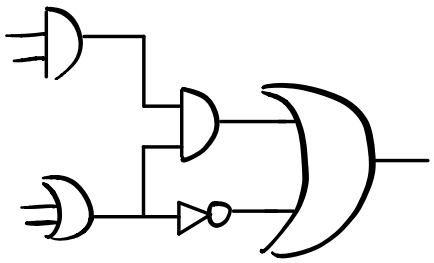
Code

a = a + 1

b = a / 2

c = (b * a) - 9

RTL



Compile Synthesize

Messages Memory Resources

Build successful

Shows generated RTL hardware

6

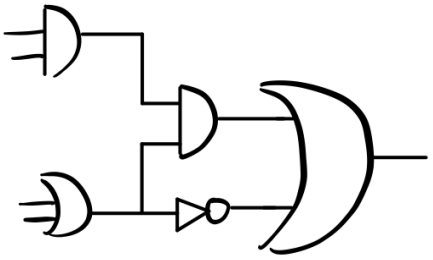
Code

a = a + 1

b = a / 2

c = (b * a) - 9

RTL



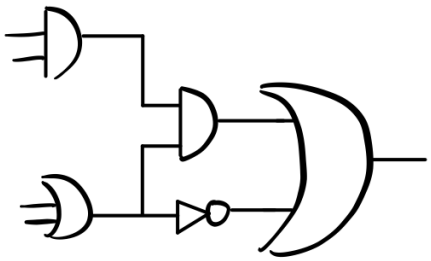
Compile Synthesize

Messages Memory Resources

A = 2 B = 9 C = 3

User clicks on “memory” tab and it shows variables

7

Code	RTL
a = a + 1 b = a / 2 c = (b * a) - 9	

Compile Synthesize

Messages | Memory | Resources

AND = 2 OR = 2 NOT = 1

User clicks "resources" tab and it shows gates used