

HW #1

Input : while (t < upper) s = 22.00;

Output

token	lexeme
key word	while
separator	(
Identifier	t
operator	<
Identifier	upper
separator)
Identifier	s
operator	=
real	22.00
Separator	;

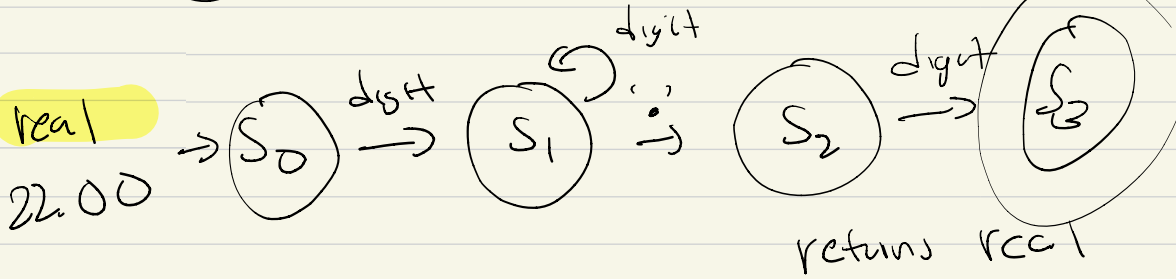
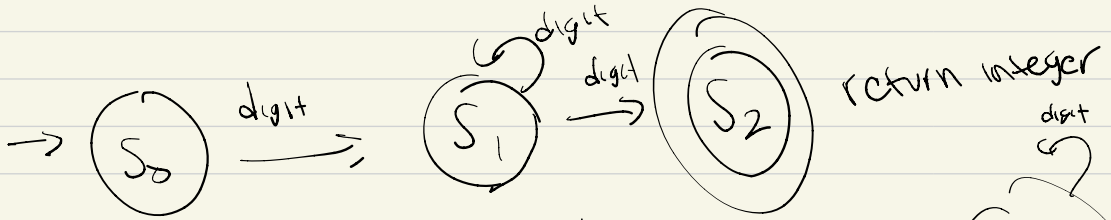
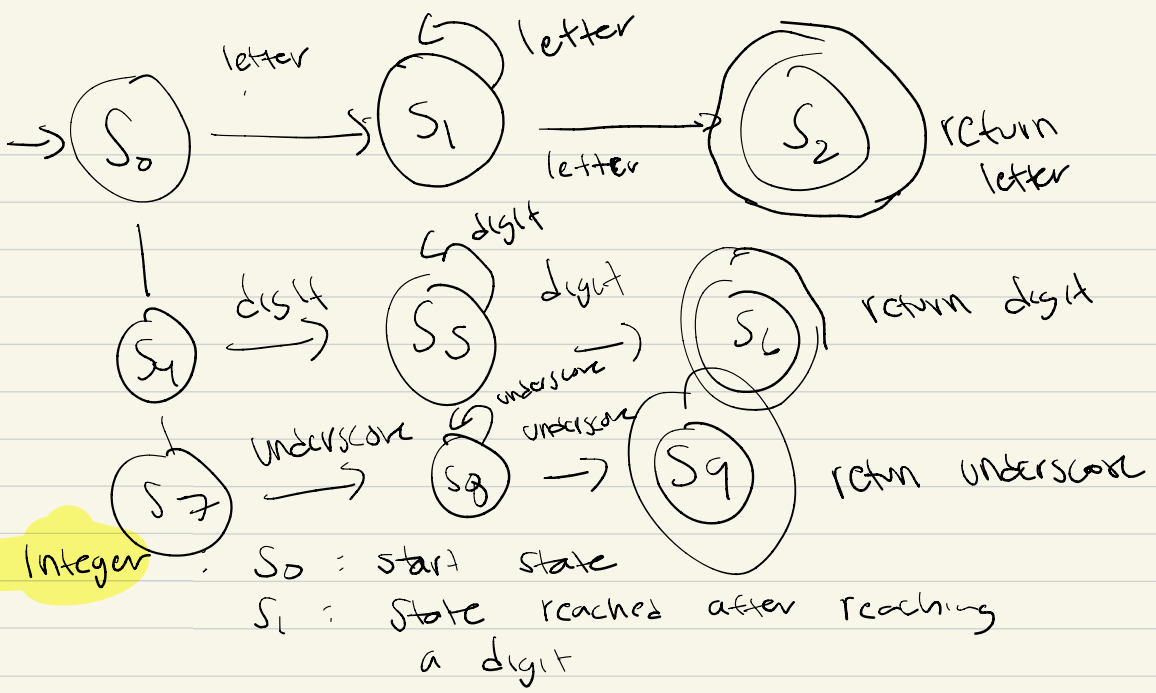
① design and implement FSA for token - Identifier and Integer

Identifier: Start with letter or underscore

S_0 : start state

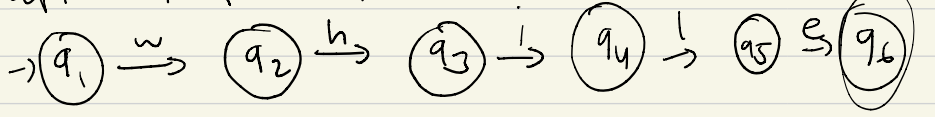
S_1 : state reached after reading a letter or underscore

S_2 : state reached after reading letter, digit, or underscore following S_1

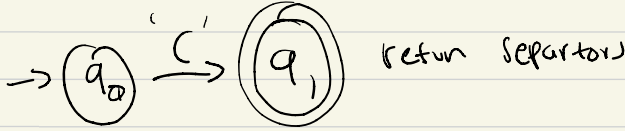


keyword, separator, operator,

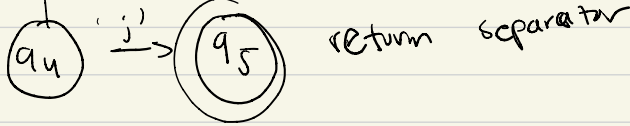
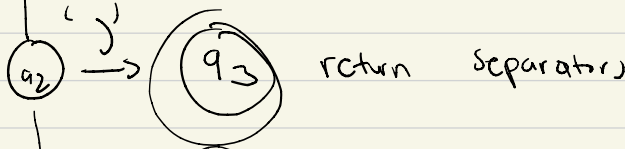
keyword
(while)



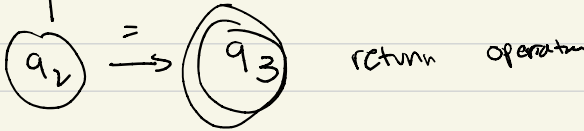
Separator



(,), ;



operator
<, =



FE letter [A-Z] [a-z]

Identifier

(letter) (letter | digit) *

[0-9]

Integer

(digit) (digit) *