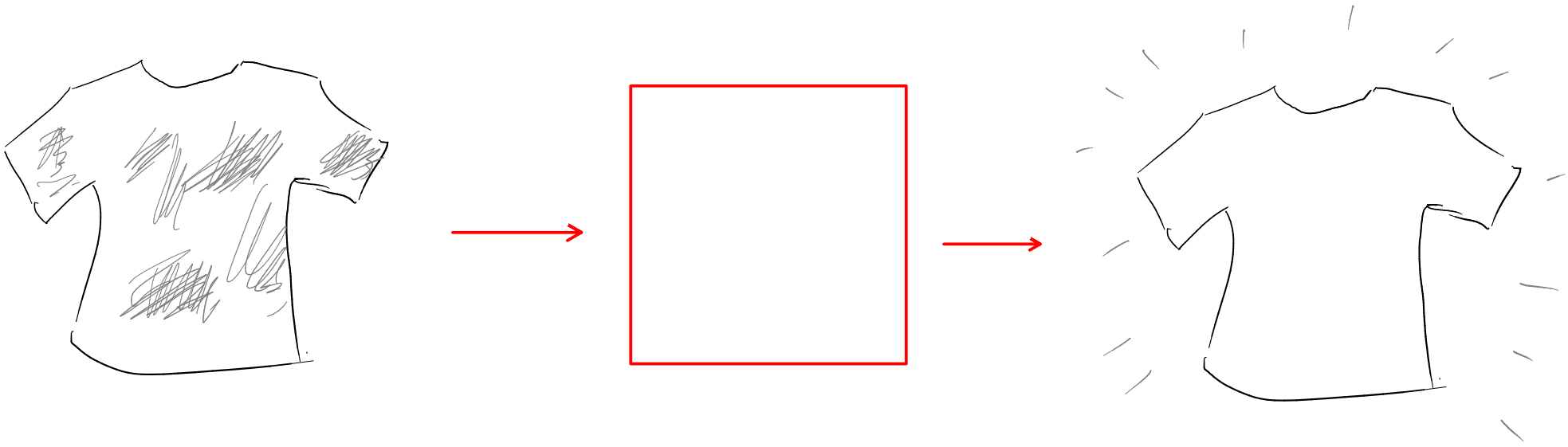
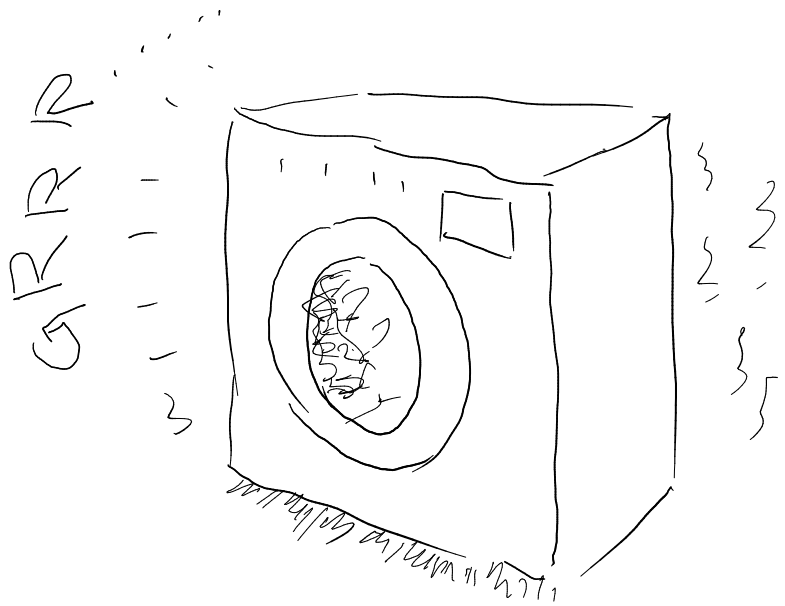
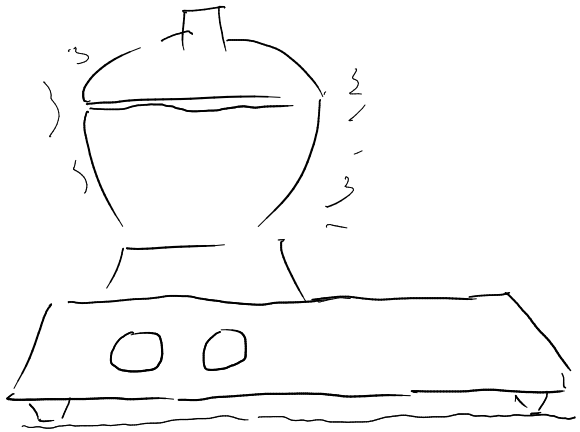


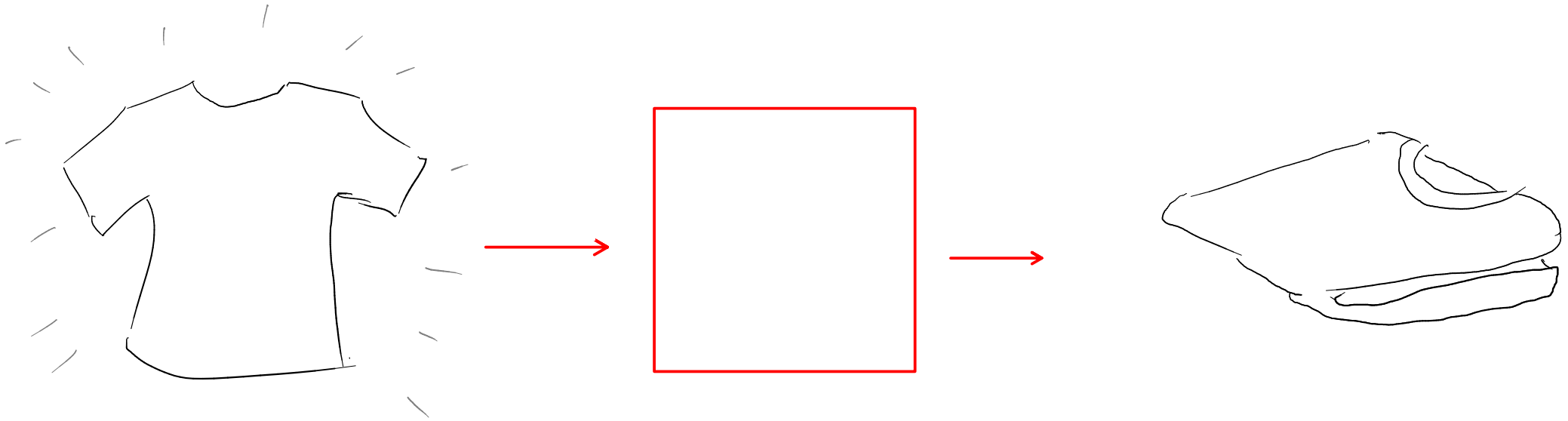
A)

B)



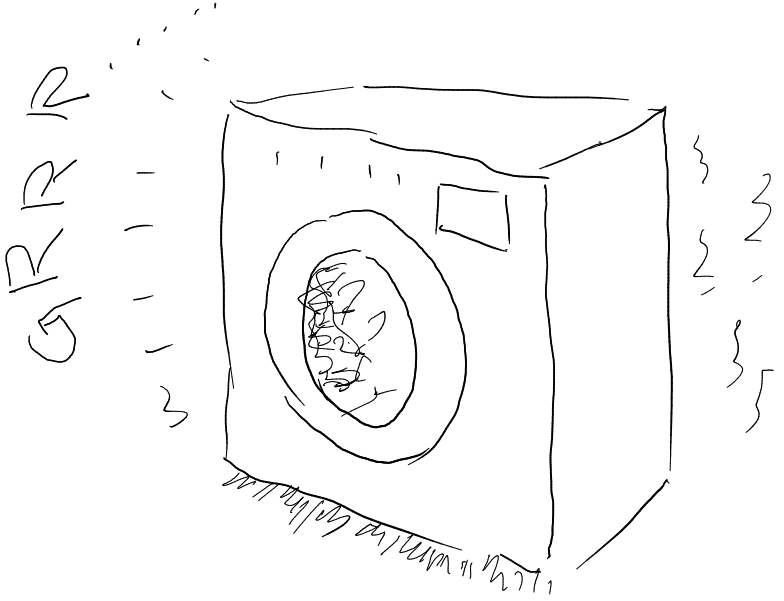
C)



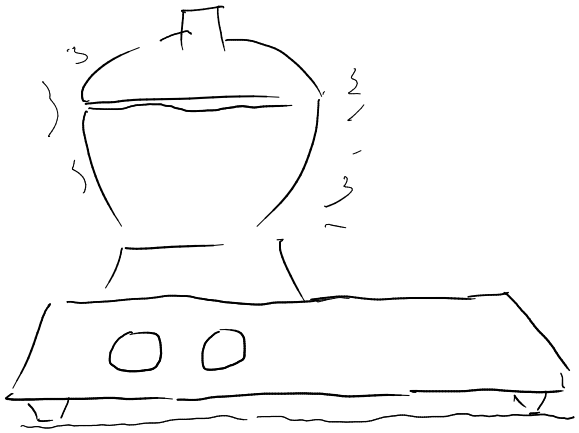


A)

B)

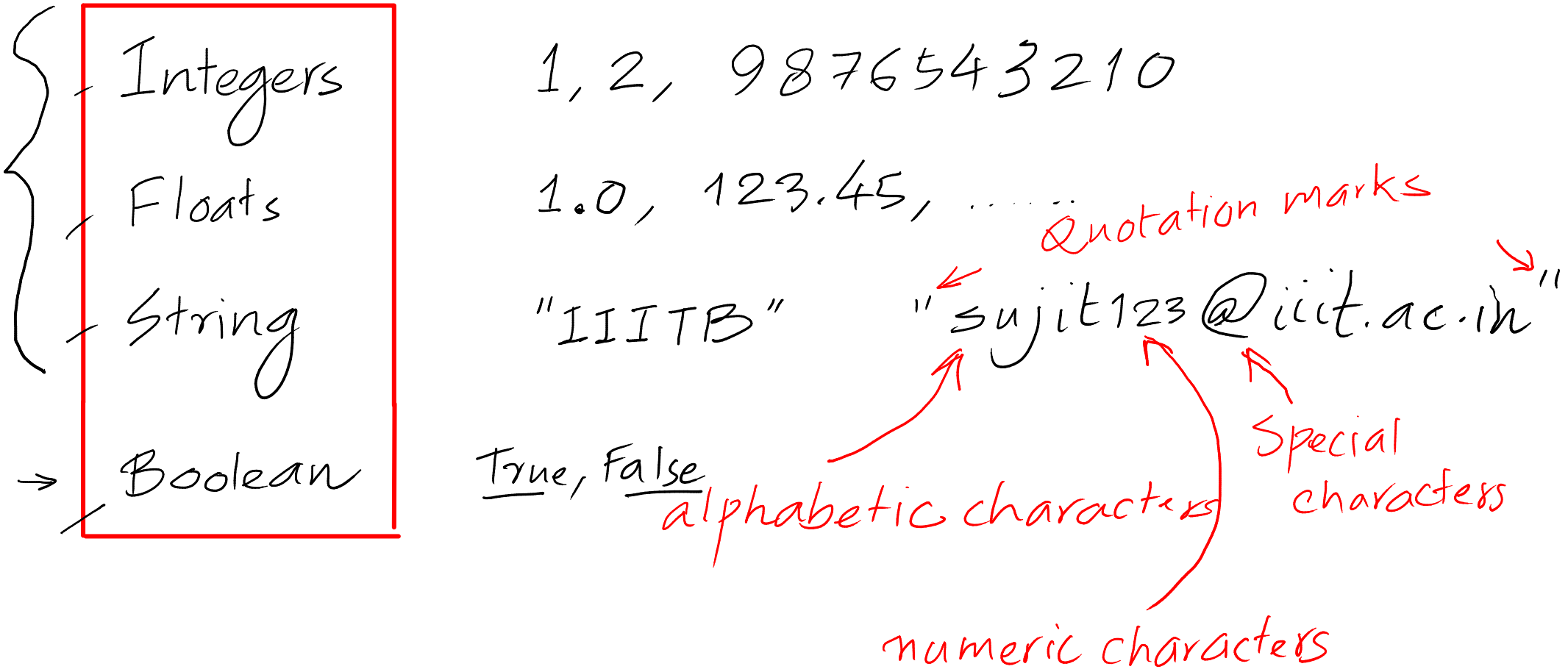


C)



DATA TYPES

- Integers — 1, 2, 9876543210
- Floats — 1.0, 123.45, ...
- String — "IIITB" "sujit123@iiit.ac.in"
- Boolean — True, False



"1" + "2" + "3"

A) 6

B) 4

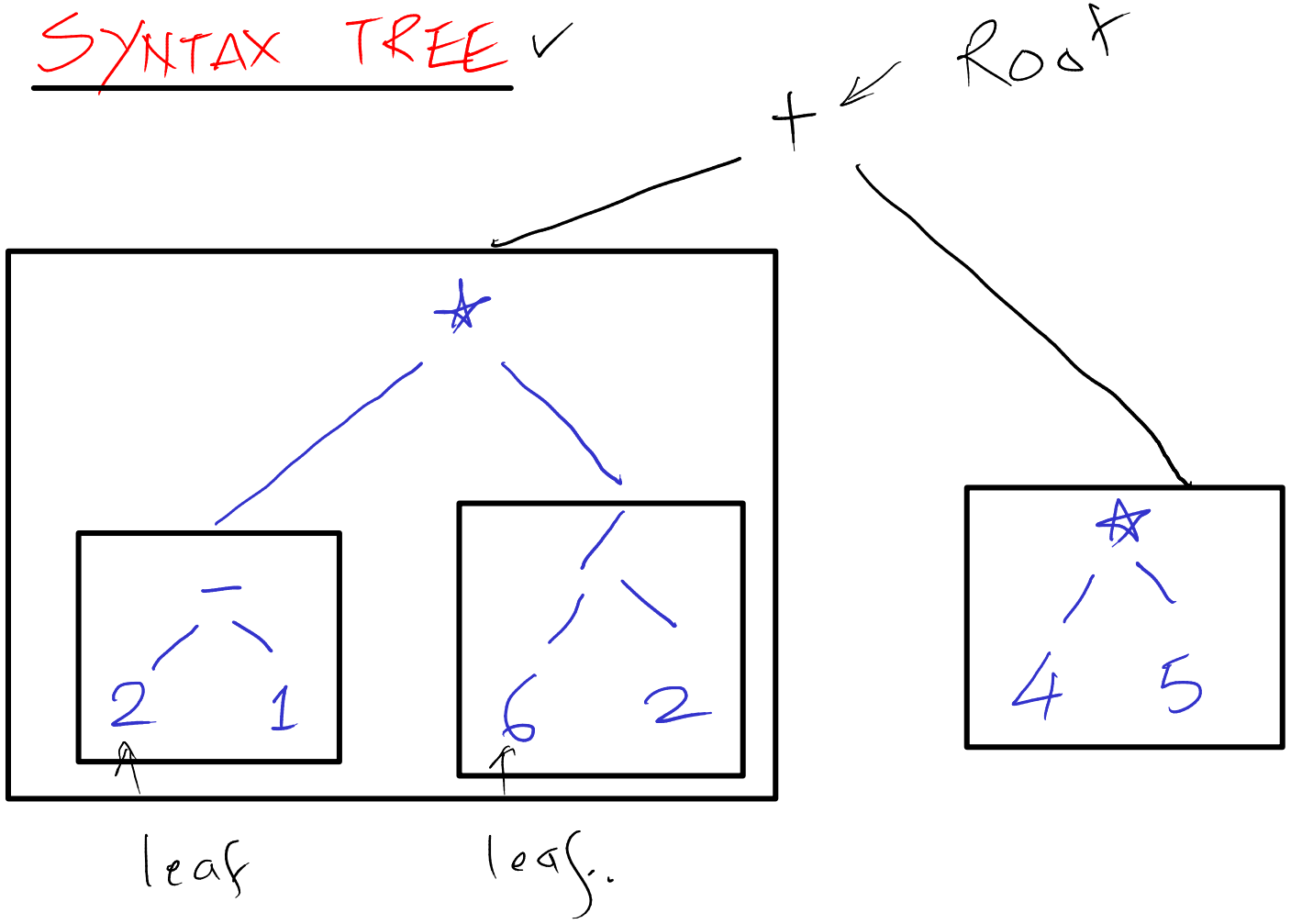
C) 123

D) "123" ✓

String Concatenation

$((2-1) * (6/2)) + (4*5)$

SYNTAX TREE ✓



Syntax

I went to school. — 'to' missing

I went to school — 'full stop' missing.

All languages: lexicon, Grammar.

- English, Hindi
- Python, C.

broken → Syntax error

Relational Operators

Numbers Number ⟶ Boolean

→ == Equals

→ > Greater than

→ < less than

→→ >= Greater than or equal to

→→ <= Less than or equal to.

Data Types

Int, Float, String, Boolean

Operators

Arithmetic : num × num ⟶ num.

+, -, *, /

Relational num × num ⟶ booleans

==, <, >, <=, >=

Logical boolean × boolean ⟶ booleans.

and, or

Variables

Names used to store value computed

They can be used as part expressions in later computation.