

Agenda

- ① Introduction to Strings
- ② Ascii
- ③ Solve problems
- ④ `.equals()` method

printed `Hello World` → string

" — "
 any thing between " "
 it is a string

A sequence of characters

What is a character ?

- Anything you see in keyboard
- Alphabets
- Numerical values.
- Symbols

Examples

[a-z]

[A-Z]

[0-9]

\$ # @ " ' tab enter

Quiz 1

"abc 123" ~~X~~

no closing double quotes.

Quiz 2

"123"

123

Both we take input as 123

Output will also be 123

123 → Operators

+ - * / %

"123" → operators

concatenation, length

How does computer know (0,1)

10 \longleftrightarrow 10 10
decimal binary value
base 10 base 2

"India" \rightarrow [I, N, D, I, A]

map a character to a number

A - 1	I
B - 2	N
\vdots	D
Z - 26	I
	A

INDIA
1, ..., 9, 1

String \rightarrow Number \rightarrow Binary.

Will you agree to the char map that
I wrote

US
a = 1
b = 2
 \vdots
z = 26

China
a = 11
b = 21
 \vdots
z = 261

India
a = 26
b = 25
 \vdots
z = 1

Theraj → Donkey

ASCII → American Standard Code for
Information Interchange

A → 65

B → 66

⋮

Z → 90

a → 97

b → 98

⋮

z → 122

0 → 48

1 → 49

⋮

9 → 57

" 10 " → ['1', '0']
 49 48