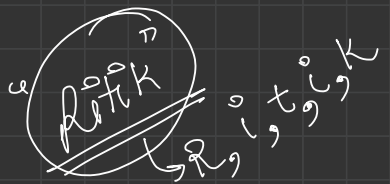
Strings

→ Non primitive data types

→ Classes in Java

99.99%



Array of Stream of char.

char ch = 'a';

char[] name = {'R', 'i', 't', 'i', 'k'};

String { Stream of char }

String name = "Gautam";
012345

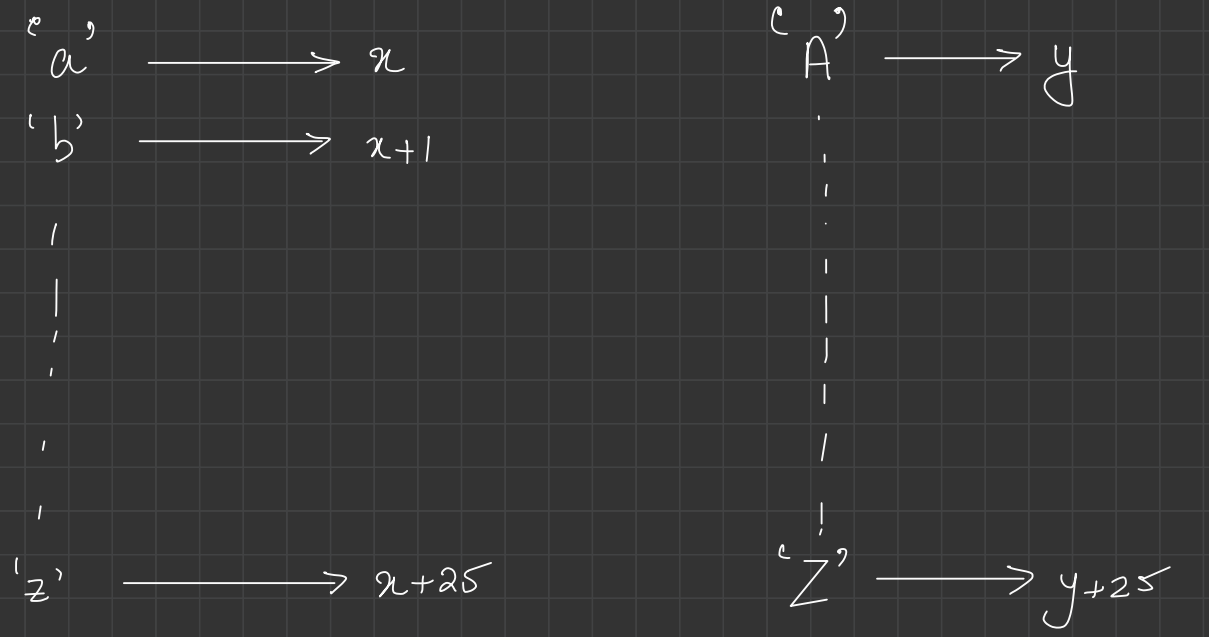
1. System.out.print(name); ⇝ Gautam
2. System.out.print(name.charAt(3)); ⇝ t

name.charAt(4) ⇝ a

3. System.out.println(name.length()); ⇝ 6

✓ Strings are immutable!

ASCII Values



Q.

char ch = 'm' ⇝ 'M'

'a' ← dist

'A' ← dist

dist = ch - 'a'

char ch2 = (char) ('A' + dist)

'M'

Q

char ch = 'r' —Convert→ 'R'

'r' —dist→ 'a'

'R' —dist→ 'A'

dist = (int)(ch - 'a')

ch = (char)('A' + dist);

'R'

```java
static void toggleCase(int n, String str) {
    // your code here
    String ans = "";

    for (int i = 0; i < n; i++) {
        char ch = str.charAt(i);

        // Lower case char
        if (ch >= 'a' && ch <= 'z') {
            // convert me to a upper case char
            char newCh = (char) ('A' + ch - 'a');
            ans += newCh;
        }
        // Upper case char
        else if (ch >= 'A' && ch <= 'Z') {
            // convert me to a lower case char
            char newCh = (char) ('a' + ch - 'A');
            ans += newCh;
        }
        // Not a Alpha
        else {
            ans += ch;
        }
    }
```

String str = "ABCxyz"

ans = "abc

ans = ans + newch

= abc + 'X'

= abcX

different typing Conventions in Programming

by default we use in Java

1. Camel Casing — javaIsReallyGood
2. Snake Casing — java_is_really_good
3. Kabab Casing — java-is-really-good

Inverse Camel Casing.

str = "IAmJavaProgrammer"

O/P

I
Am
Java
Programmer

① whenever I see a caps char, I start a new word.

② whenever I see a caps char again I end the prev and start a new word.

str = "One Piece"

{ One
Piece }

str = "One Two Three four five"

i ↑ ~~↑ ↑ ↑ ↑ ↑~~

currWord = "T

o/p

One
Two

String currWord = " ";

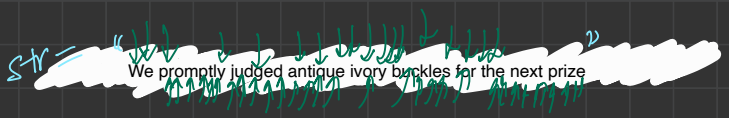
```java
for (int i = 0; i < str.length(); i++) {
    char ch = str.charAt(i);

    if (ch >= 'A' && ch <= 'Z') {
        // capital char
        if (currWord != "") {
            System.out.println(currWord);
        }

        currWord = "";
        currWord += ch;
    } else {
        // smaller char
        currWord += ch;
    }
}
```

print (currWord);

str = "OneTwoThree"

currWord = ""

Panagram



26

0 a
1 b
2 c
3 d
4 e
5 f
6 g
7 h
8 i
9 j
10 k
11 l
12 m
n
o
p
q
r
s
t
u
v
w
x
y
z

Panagram

26 - Alphabets

a, A ⟶ 0
b, B ⟶ 1

ch - 'a'
OR
ch - 'A'

Boolean [26]

0 → 25

0 → 'a' || 'A'

True

str = "AzbC"

Small

ch - 'a'

↳ 25

Caps A

ch - 'A' = 0

↳ 2

Split

str = "Hello This is Beginners 2"

string[] = str.split(" ")

→ {"Hello", "This", "is", "Beginners", "2"}

String str = "Hi; my name is Ritik";

String[] arr = str.split(";");

→ {"Hi", " my name is Ritik"}

```java
static void camelCase(String s) {
    // your code here

    String[] arr = s.split("_");

    System.out.print(arr[0]);

    for (int i = 1; i < arr.length; i++) {
        String str = arr[i];

        char firstChar = str.charAt(0);
        // capitilize it
        if (firstChar >= 'a' && firstChar <= 'z') {
            firstChar = (char) ('A' + (firstChar - 'a'));
        }

        System.out.print(firstChar);

        for (int j = 1; j < str.length(); j++) {
            System.out.print(str.charAt(j));
        }
    }
}
```

str = "abc_xyz_mn"

String[] arr = {"abc", "xyz", "mn"}
0 1 2

abcXyzMn

i

str =

mn →

fc =