

String  $\rightarrow$  int [Parse used].

20-30-40  $\rightarrow$  Split used before parse.

String Builder

## 10) Strings & Arrays.

- a) 2 ways to create strings
- $\rightarrow$  String CustomerName = "Jasmine";
  - $\rightarrow$  String CustomerName = new String("Jasmine");

Diff b/w 2 ways

- b) No new memory will be created if values of string are same, even if varname is different. (of 'new' keyword is not used.)

- c) String methods like length, concat, toLowerCase(), etc.

Given in Tryout to practice.

equalsIgnoreCase / Str.charAt()  
Str.replace()

split("aeiouAEIOU")  
 $\rightarrow$  for consonants. 1  $\rightarrow$  for vowels

## d) Arrays

datatype[] Arrayname = new datatype [size];  
(or)  
= { elements };

★ Special type of loop in Java called for-Each loop.

for (long contactNum : ArrName) {  
(each i)  $\leftarrow$

// body.

}

[ Don't use ArrName[i]  
just use i ]

- e) 2D Array  $\rightarrow$  datatype[][] ArrayVarName = new datatype [2] [7]  
 $\rightarrow$  for display fn, 2 loops are used.

row size  $\downarrow$   
column size

★ Given about (String[] args)  $\rightarrow$  in main fn def.

(can be used using command line

Run as  $\rightarrow$  Run Config  $\rightarrow$  Give command arguments.

## ② Testing & Debugging.

a) ⇒ Writing a code is imp but writing a bug free code is more imp.

To make the code bug free testing is used. Testing is the process of checking the functionality of application to ensure that it runs as per the requirements.

b) ⇒ Testing of small unit of codes such as a method or a class is called unit testing. Automated testing more reliable than manual testing.

⇒ There are many popular frameworks for automated testing, most popular for Java are → JUnit and TestNG.

c) Debugging → Process of identifying and removing bugs.

⇒ If program doesn't give desired output, whether or not it throws an error, it is a bug.

⇒ Very hard to point out bugs in a very large application, consisting of inter dependent applications.

d) ⇒ A developer should also follow best practices and coding conventions. One might use code analyzing tools for this.

Eg: - PMD.

(Programming Mistake Detector)