Strings

- Arrays

Today:

Strings in Java

i--- What, why

I--- Java Syntax: Create, Modify

i--- String Methods

I--- Problems!

Strings

A sequence of characters.

Characters: a - Z , A - Z , O - 9, # , [, @,

e.g. Nrupul

Mame

Pass words

Email Ids

Address

Pincode

Aadher PAN NO Nrupul, "Masai

masai123# (@

foo123 @ gmail. com

Flat No: 512, Emerald Apth.

560001

ABC5641X"

Strings (Java) (not primitive data type.)	
objects.	
Strings Array of chars	
$arr[m a s a i]$ $char[]arr = {(m', 'a', 's', 'a', (i')};$	
Creating Strings rabie	
String pwd = "Masai@#12"; pwd * Masai@#1	2
Data Type variable	
pwd = "foo!123";	
String Methods.	
i) charAt.	
rame: Masai School > NOT array	
String name = "Masai School";	
S.O.P (name, charAt (6)); Position / M	٠
5.0.P (name. chart At (8)); // h	
Sop (rame [8])	
string randle charAt(?): returns the character string randle at index & in string-name.	

```
name. charAt (0) = "P";
               S.O.P (name.length());
            Password greater than 7 characters
             String passwd = "abc123";
             if (passwd.length() > 7)
                     S.O.P (" Valid Password")
                    S.O.P ("Invalid Password")
        Write a program to print all the characters
                                       line,
          of a string in a new
                                   2
for Cint i=0; i < s.length(); i++
 Concatenation
String s = "Masai School";
String snew = " "
for (int i= 0) ic s.length(); i++) {
5.0.7 (snew)
. String s = "Masai School";
· String snew = ""
 for (int i= 0; ic s.length(); i++) {
     snew = s.charAt(i) + Snew;
```

Opdating Strings	
Positions y 0 1234	Pasai*
name: Masai	Memory
	me masai"
mutable something that can be	charged.
int ie o	2. is motable
String name = "Masai"; S.o.p (name); name = "Pasai";	
name = rasac	
A [0]0 10 0 0	
A[2] = 10	
1. 2. 3. M. M. A. S. A.	· · · · · · · · · · · · · · · · · · ·
To modify (update) we c	reate a new String!
String name = "Masai"	
	je character at position per new character C 211
for (int $i = 0$) i < name length() it if ($i = p$) }	÷): }
newname = newname+ c relse s newname = newname	+ name charAt(i)

1.9	m)	e :	W	a	Ş	a	i

String name = "Masai";

int p=2; char c= 1"; // Change character at position p=2

String newname = ""; to new character c=1";

for (int i=0; i < name.length() i+t) }

if (l == p) {

newname = newname + name.charAt(i);

newname = newname + name.charAt(i);

P: 2 C: 11)

newNome

i c name. length() newname	u + + "M" = "M"
0 0 5 7 " M"	"M" + a = "ma"
1 1 <5 v "M" "Ma"	
2 2<5 / "Ma" "Mal"	"Ma" + = = "Mo!"
3 3 < 5 "Mat" "Mala"	("mai"+"a

Checking Equality (equals method)

To compare if two strings are equal.

String S1 2 "Masai"; String S2 2 "masai";

// 52. equals (51)

(S) equals (S2) / SI & S2 have the same sequence of (SI == S2) × characters.

S1 = = S2

don't ose

Memory SI ("messi") S2

x==y true

7 = = y Primitive types 3) = = sz Non-primitive types Check if ratures

Check if memory location

1. Write a program to count the number of vowels

S= Masai

la sa i count = 0; i < s. length(); i++) }

... Il check if coment char is a vowel

if (s.charAt(?) == 'a' (| s.charAt(?) == 'e' S. chasAt(i) == (i) || S. chasAt(i) == (o')

s. CharAt(i) == 'u' > 8

- Remove all occurrences of a given S = "Masai"; remove all of output: "MSi" - newstr s.a.p (newstr).
- a Palindrome Check if a string is

s: masai ver S: i a Sam s: a b b a ver s: a b b a

String S = "Masai"

Char c = 'a'; // Remove all occ. of c.

String snew = "";

for (int i = o; i < s. length v; i++) {

if (s. charAt(i) = = c) {

Continue;

selse {

Snew = Snew + s. charAt(i);
}

String s = "person"; S = "school";

