Strings

String str = "abcd";

String str = new String ("abcd");

Input Output:

Syntax:

Scanner SC = new Scanner (System in);

String name, name 2;

name = Sc. nextline(); -> Takes all in

hame = sc. next(); -> Takes only one word.

String length

int length = name. length ();

A In obrings, length is a for that's why use parenthesis A It also counts apaces.

Strings are Immutable

Abring concatenation (àt alor an vitsar) oimply add '+ 'between two otrings. String CharAt () gives us the character at that index. eg: name.charAt(2); (P) Check palindrome steps for loop till n/2, n is length 2) Check charat i #= charat n-i-1 3) If yes return false 4) else return true. Start Read Str X START Habe Ar il=n1-

Shorlest Path "WNEENE SENNN" Steps: 1) Read Str 2) of charAt(i)== W go y=y-1 end, calculate sgrt of x2+y2 [2=0, y=0, n=length] 7/ print df Read charAt(i) Strings Compare equals ();

"Interlink"

D== does not compere obrings origin therefore,

String other " Tony";

String str2 = 4 Tony";

Stoing str3 = neve String ("Tony");

thre == will gives us oh I & str 2 equal but str 3 not equal.

To compare ouch otrings we use

(str1 o equals (str3)

equals is a string for that returns
frue & false by compairing only
value of strings.

String functions - Substrings str. substring (0,5); Pakes two parameteres si and ei and redwins a obling from si to ei-1. String functions - Largert string At tomper to str. compare To (str 1) (3) 0: equal -ve: str (the 1 tve: str > str 1 str. compare to Ignore (ase (str 1) (1) It compares strings based on lexicographical order. eg: abcd - small abc2-big amallest largest is

Interning Interlink There are 2 types of memory, heap & stack String str 1 = " Tony" Tony 4 String str2 = "Tony" Str3 En Tony 1) Str2 String str3 = new string (" long 1 Strl-Stack "String Pool > This causes string to be Immutable, coz, "Intern pool y if we change str 1 from "tony" to "Stark" other StrI points to new string in heap memory ,i-e-, Stark, Rong remains there only. That's voly here comes da-da-da-da-da-

String Builder

String Builder sb = new String Builder ("A");

However this is not string data type, that's why,
Sb. to String ();

We can do all programs with Sb are we do them with shing.

String builder is time 1 space efficient.

(1) Convert to Upper case each word's first teller. Step L) Read Str 2) If charat to make empty sb 3) Sh. append (Character to Upper Case (Str. CharAt (0)) (1) for ?=0 to n-1 5) It (char At (i) == 1 1 &4 i < n-1) 2 sb. append (charat(i)) Sb. append (Charactes to Upper (ask (str. charAt (i))) 6) cloe sb. append (char At (i)) g 7) return Sb. to String ();

Q) String Compression. "aaa bb cccdd" -> "a3b2c3d2" Steps) for (i=o to str. length) court = 1 while (repeat) count ++ count > 1 -> no O(r)= 1 -> X