austor: Logical or (11):eq: $\alpha = s$; System. out. printen (x>311 x <4); Moetarus terre because one of the operatore: - hogical not (!):-09:- int x = 5; System. out. perint In (1 (2)322 2210)); Mereturns fulse of it recuerse the result. Java Stuings Avings aue used for storing text. A string nariable contains a collection of characters surrounded by double quotes. Rublic Static noid main (String[] eigs) String greeting = "Heyo";
System. out. println (genetting);

Public class Main 5 Public static void Main (String [] 1998) String tat = "ABCDE FOHJJKIMNOPGRSF UVNX YZ"; System out print in ("The length of the text String is: " + +xt./ength/)); # String Methods: Public dass Main 3 Public static void main (Stuing [] args) String tot = "Hello Woold"; System. out. frauth [+xt. to Upper lase ()].
System. out. frauth [+xt. to Lower lase ()]; MELLO WORLD hello world Sturng + nt = "Please locate veure locate occurs!"; System.out. fewentle (+xt. inden of ("locate"))

Stung Concedencation

The I obserter can be wed between strings to combine them. This is carred Concatenation.

NOTE: rue have added our empty tout ("")
to create a space between firstwand
and last name on fruit in helow

String first name = "Gauri"; Sturing last Name = "Doe"; System. out peintle (first Name + " "+

InetName 1"

Concert) method:-Stung firstname = "John"; Staing Last Name = "Harry"; System. out-pountle (first Name. concat (last name)

[NOTE:] Java uses the + operator fore both addition and concatenation. Numbers aux added. Slevings avre concatenated [mhereas] String 2 = "10"; eg: - i ûnt x = 10; Stuing 4 = "20"; string z = n+7; int y= 50; int z = x+7; output: 2=71.020 outbut:- 30 # <u>loint</u> <u>to</u> <u>remembel</u>:-If you add a nymber and a string contatenation one result mill be a string contatenation Stering x = "10";
int y = 20; String z = 2+4); outfut: - 1020 (9 String)

Aburgs Speried Characters Steerings must be mritten mithin quotes, Jana mill misunderstand this steering, and generate an error: Stung +nt = " We we the &o-called "Vikings"
from the north."; the solution to avoid this problem, is to use the backslash escape character. The backslash (1) escape characters turns special characters into string characters. Description Result Iscape characters Single quote / doubre quote 1) /" Backslash

19:- String tat - " we are the so-called
1" Vikings \" from the North";
eg: Dering tot = "It/'s aleight";
The chasated 11 is
29: String tot = "The character 11 is called backslash.";
It other common escape sequences;
Resutt
Code
1) n (arriage Réturn
e> \r \
2 1 ·
5) \t
Java MATH
The Java Math class has many methods that allows you to perform mathermatical tasks on numbers.
The Java Mail to perform mather
that allows on numbers.
maticul

Mouth. max (n,4) Public class Main &

Public static void main (String[] args) System. out. println (Math. man (5,10)); 10 math.min (niy) System. out. perintln (Math. min (5,10)); Math. sgot (n) System. eut. println (Math. 1898+ (64));

Moun abs (2) The Math. abs (2) method neturns absolute (positive) nature of 2: the 890- Mouthabs (-4.7); output: -4.7 -> 4.7 (+ne) · Random Numbers Math. grandom () recturing a random number botnuelle 0.0 (audusine), and 1.0 (exclusive)! Moth leandon (); ent random Num = (Int) (Moth. drandom () Jara Booleans Very often, in perogramming, you mill need of data type that can only home one of two natures, like: 4 Yes/No L> onlost 4> grue | false for this, Janes has a boolean date , which can stone there on Juse.

bookean is Janafun = true; System out penint In (is sova fun); Boolean Expuession is a Jana expuession alor veturns a Boolean value: tout ay faise. returns This is useful velien me ment to compare natures to find answers. I start as a fog eg!int n = 10; int $\gamma = q$; System. out. peuntly (x>Y) output: returns time

Note: The Bodean nature of an expension all Jana Companisms and conditions.