JAVA begramming Notes Interoduction to Java:

Jana is a popular - general puopose
perogenamming language mitth a mide kange applications. deneloping mobile auskrop applications

big dater processing.

mobile auskrop applications

processing.

systems are--languages, Java still has a huge demand . In the currecuit job market. This rounce is an introduction to Jane perogramming in the most attractive many possible. heaven a concept along with codes. # Busic Stuncture of Jana code: class main & public stouic noid main (steingt) avegs) & public stouic noid main (steingt) avegs) & System. out-perintly ("Heyo, world!");

Before understand some points union are temphia fee a coder: Hear of cooling: Recoreanning may feel intimicating for beginneers. If you give it time, you'll master it, no doubt. Similar to language in a sense. You just med to leave the syntax. Syntax means eules of quammar to learn orglish. 5) Mach Jeg Proggamming: heaving to code semolnes a let of logical hand trust and everyon, ho neever, nothing beyound basic authmetic.

Busics of Numbers and Trat There are a few things we need To understand frust, even to write simple perogenams. me will coner the following concepts in this lesson. fined natures our carred literals 1> Judegeus (ant) = 2, -4, 3, 5, -10 3> Hoating point numbers (double) - 1.5, 2.4'
3> Steing (tent) - ex " python". Quiz:- " Java" is a B> String C) Floating - point number D> None 2) 9.0 is a A) aut B> Sturng c> [double] 07 None

Paint Numbers and Texts you might remember this from our Mello World perberam. System. out. priently ("Hollo, Woorld"); ment hous to end of bee print statement used to prient to pount a number: Public static void main (strang[] orgs) of System. out. println (33); jourput: System. out. println () puints the inside (), rubich is 33 in beroamen this program.

ege class Main & Public state void main (String[] evegs) of System. out. println ("Java is easy."); output: Java is easy. Note: - when we peunt steings, the outer quotation marks are not displayed. -> [COMMON MISTAKES] 1) Eurore because of quotation marks.

or forgetting Semi colon in the print state ment. [NOTE]:- we can indude Morre than only frunt statement in our Jana code. Juo différent feint statements prints on two different lines by defautt. class Main &
Public static void main (Stering[] 1795) {
System. out. printly ("I love Iana");

Indroduction to commercia In parogeramming, me can make competeres parogeram parts of the parogeram by using comments. In Jana, rue use [1] (two formeard slashes)
to sturt a comment. class Main & public static void main (Stuing [] augs)! 11 point Melo would Lystem. out. primtle ("Heyo would"); here, Il puint Hello would is a comment. This part is completely ignored by the compiles. comments aue used as hints that, une add to our perogram to make one code easier to They are muinty used for humans.

fuiz Comment is the correct may to ons: -Jura Variables Nuivables aux containers for stewing dater names. In Java, there are different PP type of naurables, fou ex--17 Steing -> "Java" T er ant J 37 float -> 1 > Teme | False 5> boolean type variable Name = name; Steung name = " Ram" System. aut pountly (name) Public class Main & Public static void main (string[] arqs) ant my N4M = 15; System. out. preuntly (my Num);

Java vous ables must be édentified names unique names . These unique names could soleutifiers. Ju It is succommended to use elesvitetine, names in ouder mountainable code: all int a = 10 y value date identifier. General eules for naming variable Distances can contain letters, digets, undersores, and dellar signs. e) Mames must begin mitte a letter. 37 petter and it cannot contain whitespace my prames can also start with & and -. s> Mames aue case sensitine. 67 Reserved woulds can't used as names.
67 Juin as int., boolean etc.

Java <u>Vota Types</u> et naviable en Java must se a sperifiech date type. Dette types aux divided into two groups: 9> Perinstère date types e> Non-princitive deta types. 1> Keenviline data typesfloor, double, boolean and chan. 4> Non-preinstine data types-Juch as steing, Lucys and Clases. Description Size date type Store whole numbers from -128 to 127. 1 byte byte stories unale number 2 bytes Short forom -32,768 to 32,767 Stores unole number ant 4 bites Juen -2147483648 70 2147 483647

Stories whole nymbers 8 bytes -9223 3 72036854775 808 to long 9223 372 63665 4775 807. Storus fractional numbers.
Sufficient for storing.
6 to 7 definal digets. 4 bytes flout Stones fractional numbers.
Sufficient for stoning 15
duinal digits. 8 bytes fouble Stones teme og false values. 上的计 boolean a single character! stores 2 bytes 4 ahar Type consting is when you assign to one fuinitine date type to JAVA Type CASTING a rialue In Java, there are two types of coesting.

1) widening Catting (automatically) - rommerting a snatur type ito a larger type size. > byte > short >> char > "nt >> long >> flocit > double converting la larger type of to a smaller stype. ⇒ deuble → float → long > Int > char -> short -> byte midering Casting Public static void main (String[] augs) { Public class Main & int myInt = 9;

double my Double = myInt;

double double casting int to double

// dutomatic casting System. out. puintle (myInt); //output >> 9.0 System. out. perintle (my Double); // output >> 9.0

Nærgoning Casting fablie class Main of
public statil noid main (String [] args) double my Double = 9.78d; Sint my Int = (int) my Double; 11 Manual coesting: double to int Dystem out peantle (my Double); 11 outputs: 9.78 System. out. puinten (my Int); //output 9 Java Operators operatores are used to perform operations on warrable and natures. the operators ento the forming Jana dirides geroups seithmetic operatores Assignment operators comparisen operators 1) hoghal operators Bituise operatores.

Name > Addition + Public class Main & Public static void main (Stung[] orgs) Eystem. out. puintle (2+7); Subtraction Name -> operator -> Public class Main & Public statie void main (Steing [] augs) θ int $\alpha = 5$ int y=3; System. out. printle (2-4); Name > mutiplication eg: - System. out. purantla (x*7); wane > Division operator >/ System. out. println (2/4);

Name -> Modulus operator -> 0/0 System. out printle (xº/0y); Name -> Invienuit operator -> ++ 11 output 6 int x = 5; System. out. puintle (x); Name -> Devenent ofercator -> Moutput 4 int x = 5; System out funtle (2); Jana Assignment, ent n=10; 29:ant n=10; Moutput 15 9: nt= 5; as 3. [Pane

designment other 0/0 = CK = 1= (omparison)
operetor 11 outures true Tystem. out. feintln (2>y); other Janu hogical Operators operator -> Logicul and (bd) System out pointle (x73 && x <10); 11 the conditions are tend.

operator: Logical 08 (11):
eq:- int x = 5;

System but printen (x>3 11 x < 4);

Nactures terre because one of the conditions datisfied.

operatore: - hogical not (!):
09:- int x = 5;

System out perint In (! (x>3 & 2 x < 10));

Meeturus fulse as it recurse the
result.