- High level longuage - longuage & parform (Favo has runtiene seminonment & API) - supports unicode values (all characters & languages (vocal lang.)) - Robinst - playoun /os independent: WORA (write once pein anywhere) -> Secured : No explicit pointer " classloade (load Java classes into JVM dynamically) : Bytecode verifies (cuein code if they volate -- Aschifertural Neutral

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-- No pass by reference is now sometimes

-- Plack of pointers avoid security problems (pointers may sometimes

-- head to invanituoised access) - Case sensitive: Name of java file must match class name -> multi-threaded - Applications : Disktop app l'é media player, autivirus etc à mel app i.e. rette. co.in etc · enterprise app it. Bauring app compiler de programa java java class/fileName embedded System Smart card · Robotics games -> Syntax public class Main? entry Ft. of jancode
public static void main (String [] args) { fu from anywhere System. out. printly ("Hello now by run without any object. . and live arguments · array of strongs to change location of bytecode file (·class)

to change location of bytecode file (class): jarac -d. Demo. jara javac d. Demo. java previous directory parkage i in simple words of files lies in a folder, that folder is said to be parkage our programs f classes. -> Sconner : java. util. Seanner (parkage) Import java. util. Scanner; public class Demo public static void main (string [) args) { Scanner input = new Scanner ( Jystem.in); inbuiltclass variable creating scanner corresponds to keyboard take input

System.out.println (input. next()); wandard i/p) fres of Scanner class -> Primidire Datatypes: not further breakable \* tata type -> type / category of data belongs \* 8 mt - numeric (4 bits) \* char - character/alphabets \* float - floating put, numbers (float a = 9.26) \* deuble - larger deetmat numbers \*18) long - long uitiger numbers (long 1 = defaut value + false (no fix size) . In float and long, All use eto denote the number and is of which data type.

-> Comments: cutal + /f sly le line -> //
Multi-line -> /\* ... \*/ > Variables: names to Store data in ef. int a=5; float b=5.2f; · ruly o case constitute - Start with alphabets, \_ os & - not be keyword -> CamelCase -) not be class name -) no length limit reference titerals
variable of 10 - identifier of variable i'd changing data type of any data. . Type casting can occur if the five data types are compatible Extination data type greater from source type. Ex. int num = (aut) (67.64); OP. (67) \* automatic type promotion in expressions. - Java automatically promotes each bigte short or char operand to int when evaluating expression. -) If one operand is a long, froat of double the velicle expression is promoted to long, float or double respecti-Eg: byte a=40, b=50, c=100; mt d = (ax b) (c)