JAVA (1)
package com. company -> used to organise classes
belonging to same cotegory or similar function.
main is declared as public Static main ? ?
public static void main (string[] 0893) { }.
Priode in C -> system-out-priodln (" Het")
print, Stalement -> system.out.brint (" ");
println statement statement terminates with In automatic
Each and every line in java must be terminated
with =
Java is a OOPs oriented programming language
Variables in Java: container which stores a value in a Java program
Datatypes:
primitive - s Numeric: integer, floatingpoint, byte-8 double-64 Short-16
ist-32 float-32.
Non-numeric: character, boobean
Non-primitive -> strings, arrays, user defined classes.
Write L at the end of the long number to indicate the
datatype as long because Java takes any numberas it
other than long

write F at the end to devote as a floating point store smultiple strings In one using tripple We cow double invested commas -> "" -Commends: ct8/+/ 11 -> single line comment */ -> multi line comment Typecasting: charging datatype from one to another. int z = (Bort) y; Constant value: final while defining with datatype-sfinal ind x=1; Scanner class: impost java-util-Scannes, Scanner Sc= new Scanner (System.in); int x = sc-nextInt(); The next function only reads the input till a break point-Scannex class does not allow to read a single character input. so we can access it or write it as. char c= sc. next(). CharAt(0);

The JAVA interprets a declaral number as double to -

- But: we have to declare scarner class for this operation The argument of the object declared in scanner class Is taken as systemian -> since the input is being taken from the system (:: Scant) from the user. The variables are printed with output by traviable The condition in it condition must return a boolean value. If break; is not used in switch cases, the compiler falls and executes all the following conses. till it breaks. Enhanced switch case: swith (condition) case labell-> { 3 case label 2 -> § 3 default -> {

Temasy executors - if else Statement.

condition? True statement: false Statement.

logical AND-R, logical shoot circuit AND-RR.
logical OR-1, logical shoot circuit OR-11

Not Operator -> !

For loop is preferable when exact humber of iterations. Integer. MIN-VALUE -minimum integer value Math-max (a,b); -> gives the biggest value arrorg both a random integer Math. randome) -> gives number -> 0.0<=2<1 Break; continue; can be used array name. length -> length of the overay. declasing away in Java: datatype[7 arrayrame = new datatype[size]; Variables can be printed as value in print statemen a's " + variablerossnet" too each loop! for (itrater: variable) ? Se datatype must be some where variable is an array which has increment index in for each syntax in itself Introduction Setup Gretting Stooled Operators & Control Statements. 1000

Assay.

JAVA (2)

The main class is defined as class mount public static void main (string[] args) { } } } }.

A particular address character of a string can be accessed as

Stringrame . charAt(position);

Sxing length is given by stringname.length();

If two Strings are exactly equal but you don't want there to point towards the same address use new keyword while declaring the second.

> String stringrame = new string(2");

Sringname-equals (stringname-2) -> This function walker
the == , checks the contents of two strings than
the object references.

Stringname. indexOf('); returns the index of first occurrence of the specified char or string. (1) if true

The Java compiler actually returns true or false" rather than binary for conditional statements.

String name - contains (""); returns true or false where the given input is present in the string or not

Stringrowne - to Upper Case (3.) String but can create miss Stringhame-replace (target, replacement); replaces the target by the replace ment. If multiple targets, then every targets are replaced. Stringname-substring (index); starts the new string from the target index all the way till the end. String rame. Substring indexs, index2); starts the new String from index 1 till index 2 of the string include Two Strings can be added using + To convert any variables into String, we can use the function to String(); StringBuilder stringrame = new StringBuilded "-")," >Stringrame. append(); -> adds the entered line to the first string itself. → Stringname. insert (position, "-") > adds the entered line to the position of the first string itself. >Stringname. replace (index1, index2, " ") -> replaces the extered string deleting the words from indext to index2 and replacing it with the entered value > Stringhame. delete (index1, index2) > deletes characters between index I and index2.

String Bulder String can be converted into normal String by String stringname2= stringname+losting Stringrame . reverse(); tracesses the string only in stringbuilderclass. Systex of a funtion method! void Returstype functionname (Parameters) {Body; } Datatypes of the parameters sents between the mous and function body is and must be same. When you don't know the number of elements sent as parameter to the function, just use the syntax. dotatype function raise (dotatype ...) arays) 5 } Wrappes class: Java wrapper classes provide a mechanism to use primitive datatype as objects. Coyte -> Byte) (short -> Short) (int -> Integer) (long -> Long) (float -> Float) (double -> Double) (boolean -> Boolean) (char-> Character) Tiva collections must be declared using the wrapperdass. Java synchronization works with objects in Multi threading

Autoboxing: Autoboxing is the automatic conversion that the Java compiles makes between the primitive doubodye and their corresponding wrapper class. Un box ing:

The automatic conversion of wrapper object to He corresponding primitive datatype is known as unboxing.

Moth max (x,y) will return max i mum value Math. min(2,y) will return minimum value.

Math. floor (sky) -> with return the value x only.

Math. ceil (204) -> with return the value x+1. Math. round (x.y) -> will return x if y < 5 and

returns x+1 if y>5.

Math. log(2) - will return logarithmic value of shwit Math. log10(2) -> will return logarithmic value of x wit 10:

Math. pow(2,y) - will return 24

Math. Sqrt(2) -> will return the value of 1x

Math E -> 2-718281828459045.

Math. PI -> 3.14159 2653 58 9793

Math. Sin (MI/2) - will return the sine value and Mots. cos (MX) -> will return the cos value in Rad

[JAVA] 3 Moth, tan (PI/x) -> will return the ton value in Ra BigIsteger is a class that has to be imported as impost Java-math. Big Integer and then derlare as Big Integer & = new Big Integer (" "). Big Integer card be added using + operatorse hence we use BigInteger & = a-add(b); for atb. Similarly for a subtract (b) -> a-b for BigIntgers for multiplying ab > a-multiply(b);) for for dividing $a/b \rightarrow a$. divide (b); (BigIntegers

for power $a^b \rightarrow a$. pow(b); variables.

for modulus tarkb $\rightarrow a$. resod(b); classes and objects: class elassonnes datatype datamembers; memberfunction () { } Before main 4 After/inside maint classname obj = new classname(); Access the datamembers using dot operator ase class obj-detumember.

Access the member functions using dot operations as obj-memberfunction.

Constautos:

Has some name as that of the class.

Has not return types/datatypes.

It takes arguments as

cons classname (datatype arguments) & 3

This. variable -> Prints the variable value in the particular block.

to string.

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