| SAGA | Page No.: VOUVA Date: |
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| | BASIC JAVA NOTES |
| : | @curious_programmer |
| | Introduction Tava Tava is a programming language and a platform. Tava is a high level robust, Object - oriented and secure programming language. |
| | Class Example (public static void main (string args []) System-out-println ("Hello Tava"); } |

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| | Application :- | | |
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| | Standalone / Desktop application | | |
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| | Standalone Desktop application Web Application Contexprise Application Orabile Application | | |
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| | because it doesn't physically exist. Jum is a provide a runtime environment in which Java | Lybrode | |
| | provide a runtime environment in which java | D/ICCOSI C | |
| | can be execute. | | |
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| | Tor Classe gryn Java RUDHINE | EUNINOUL | 06- |
| | The Tale runtime continument is a s | CT OI | |
| | nt. The Java runtime controlling is software tools which are used for developing applications. It is used to provide the xienvironment. It is the implementation of I is physically exists. | Polime | |
| | applications. It is used to provide the implementation of I | VM. It | |
| + | environment. It is the improvement of | | |
| + | 12 hulandilla chara. | | |
| | JDK: | 1 | |
| | Tak clands (N/m Taka Develanom | ent kit. | |
| | The Java revelopment kit (TDK) is a soft revelopment environment which is used to | dayolog | |
| | Tevelopment environment which is used to | acverop | |
| | Tevelopment environment which is used to Taya applications and applets. If physically exists. It cont + Trevelopment tools. | ning To | |
| + + | + Tevelopment tools. | | |
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Java variables: A variable is a container which holds the value while the Java program is executed. A variable is assigned with data type. int data = 50;

Types of variables:

There are three types of Jariables in Java:

olocal variable

o instance variable

- o Static Variable

1) local variable: of the method is called the local Jariable.

- 2 Instance Variable: but outside of the method is called the instance Jariable
- 3) Static Variable:

A variable that is declared as

Static is called a static variable. It cannot be local.

you can create a single copy of the static Jariable and shore it among all the instances of the class. Memory allocation for static variables happens only once

when the class is loaded in the memory.

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Java control statements

Tava IF-else statement:

The Java if stateme test the condition. It executes the condition is true otherwise else bloc

Syntax :

if ((ondition) of 11 code if condition is true

y else of
11 code if condition is false

Java if else-if ladger statement: The if-else-if statement executes one condition from multiple statements.

Syntax:

Ocurious_ programmen if (condition)

11 code if condition 1 is true.

else if (condition2) of

11 code to be executed if condition 2

is true y

else if (condition 3) (
11 code to be executed if condition 3 is the

elge of

11 code to be executed if all the condition are false

Java switch statement: The Java switch statement executes one statement from multiple conditions.

To other words, the switch statement tests
the equality of a variable against multiple values Ocurious programment Syntax 1 Switch expression case Jaluer: // code to be executed: case values: // code to be executed; case values: 1/ rode to be executed; default: 11 code to be executed if all cases are not matched Example: switch (number) of case 10: System out println ("10"); break: Case 20: System. out. println ("20"); break; Case 30: system.out.println("30"); break; default: system-out-printly ("Not in 10,2002

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| | | Loops in Java |
| | | |
| | | Java simple for loop! |
| 1 | | We can initialize the samiable, check condition and |
| | | we can initialize the logiable, check condition and |
| | - | increment / decrement value. |
| | | Syntax: For (initialization; condition; increment) |
| 1 | | Declement) |
| | | e // Statement or code to be |
| - | | executed |
| - | | y |
| | | Qurious_programmes |
| _ | | Java Mested for loop: |
| _ | | inside the another loop, it is known as nested |
| _ | | for loop. |
| | | ton too t |
| | | Example: for (in) i=1; i <= 3; i+) { |
| | | for (inlj=1; i<=3; j+1) of |
| | | System out println (it "'+i); |
| | | for (in i = 1; j < = 3; j + 1) of System out println (it'' '' + j); y // end of i y // end of J |
| - | | g // end of J |
| _ | | Tava for each loop; |
| - | | for each loop is used to traverse |
| | | for each loop is used to traverse array or collection in Java. |
| | | Cyntax |
| | | for (data-Type variable: array-Name) of |
| _ | | for (data-Type variable: array-Name) of |
| _ | | |
| | - | |

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| | Array: An array is a collection of multiple | data which | |
| | are having samilar data type. Amay in Java is stored of the array is stored on index, and element is stored on 1st index an | s index- it the 0th d so on. | |
| , i | Advantages: Quisious_prog | mammed | |
| | o (ode optimization: T+ makes the code we can retrieve or sor o Random access: We can get any da dt an index position) | t acta. | |
| | Visadvantages ! | | |
| | o size limit: We can store only the fix elements in array. It doesn't size at runtime. | ed size grow its | |
| | Syntax to redore an array in Java | | |
| | data type[] an; or data type arr[]; | | |
| | Instantiation of an Away in Java | | |
| 1 | amay Refula = new datertype (size); | | |
| | | | |

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| | Types of Array in Tala | |
| | There are two types of array Single Dimensional Array Mutti Dimensional Array | |
| | Ocurious-programment 1) Single Dimensional Array: An array with only one subscript that array is known as single one Dimensional mray | 1 |
| | Example: int all = new int[s]; | |
| | An array with more than or two subscript that is called as multi-rimensional array is used for table representation. | |
| | Example: int at[1] = new int[5][5]; | |
| | Amonymous Amoy in Java: Java supports the feature of an anonymous array, so you don't need to declare the array while passing an array to method. | |
| * | Example: printarray (new (10,20,30,403); | |
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