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	Chapter 1 - Variables and datatypes
Timbs:	
	Just like we have some rules that we follow to Speak english (the grammar), we have some rules to follow while writing a Java program. The set of these rules is called syntax. Vocabulary & Grammar of Java.
	Steak english (the grammar), we have some rules to
	follow while writing a Java program. The set
150	of these rules is scalled syntax.
	Vocabulary & Grammar of Java.
	3 - 60 - 1-60 - 4 - 50 - 100 1 - 50 - 100 1 - 50 - 100 1 - 50 - 100 1 - 50 - 100 1 - 50 - 100 1 - 50 - 50
	Variables
	A variable is a Container that Stores a Value
	A variable is a container that stores a value. This value can be changed during the execution of the program.
	of the programment shows and
	Example:
P	Int number = 8; Value it Stores! Data type variable name
	Vata type variable name
N. C.	D. L. law declaring a Variable name
	Rules for declaring a variable name. We can choose a name while declaring a Java variable if the following rules are followed:
	if the following trules are followed:
- 18	Start of a later remains many of the profits
17	Must not begin with a digit - int larry; is invalid!
7.7	Name us case sensitive harry and harry are different!
37	Should not be a keyword (like Void)
47	White Space not allowed int Code With Harry: 15 invalid
5,	Can contain alphabets, & character, _ character and digits if the other conditions are met
	the other conditions are met
-	Data lypes of a many many analy & to had at
1800	Data Types Data types in Java fall under the following Categories Primitive Data Types (Intrinsic) Non-Primitive Data Types (Derived)
17	Primitive Data Types (Intensic)
27	Non-Primitive Data Types (Derivea)
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	Primi five Data Types when I would
,	Primitive Data Types Java is Statically typed> Variables must be declared There are 8 primitive data types Supported by Ja byte -> Value ranges from -128 to 127 • Takes 1 byte
e 134	hute - Nature ranges from -128 to 127
Set	· Takes 1 by te
E	· Default value is 0
0 1 11	Short - Value ranges from (21/2 to (2)/2 -1
7.7	· Takes 2 bytes
91	Short -> Value ranges from - (2 1/2 to (2)/2 -1 · Takes 2 bytes · Defoult value is 0
tickle	land and a someth beautiful and out a land with
3,	int -> Value ranges from -(232/2 to (23/2-1 Takes 4 byks De fault Value is One
	Do Coult Value is Associated
	De fourt yand plant on which will have
4 >	float -> · Value ranges from (See Docs) Takes 4 bytes
6.1	
o hillar	Default value is 0.0f soms no
5,	long -> Value ranges from - (2 1/2 to (2 1/2)
	long → · Value ranges from -(2)/2 to (2)/2 • Takes 8 bytes
larial!	Default Value 1900 and St. M. March
70	would not be a terminal (like hid).
67	double > Value ranges from (sec docs) Takes 8 bytes Default Value is 0.0d
-	steel has a Takes 8 bytest I should be million in
	· Default Value 15 0 od
7,	char - Value ranges from 0 to 65535 (21-1)
1.1	char → Value ranges from 0 to 65535 (21-1) Takes 2 bytes → because it supports Default Value is '\u00000'
	· Default Value is '\u0000
	Marie Charles of all side price - wall

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	Keywords and regarded as sold
	Words which are reserved and used by the Java Compiler. They cannot be used as an Identifier.
	Compiler. They cannot be used as an Identities.
1	Go to clocs oracle Com for a
	Go to clocs.oracle.com for a comprehensive list!
	Reading Lata from the Keyboard
	In order to read data from the keyboard, Java
	has a scanner class.
	Scanner class has a bit of methods to read the
	data from the keyboard
	5 canner 5 = new Scanner (System in); int 0 - 9, next Tot 1):
	Read from the keyboard
	THE U. S. INC.
o h	Method to read from the Reyboard
toh	(Integer in this case)
sat his	in need to analyze the Mine was value of hear of
	Exercise 1.1
	Write a Program to Calculate percentage of a given Student in CBSE board exam. His marks from 5
dely	student in CBSE board exam. His marks from 5
	subjects must be taken as input from the purposed
	(Marks are out of 100).
4	land from + 101.
	Jakhil tool 7 6- 21:01
	Comment on a desired stands of the formation of the stands
	A - r Character Liver
	May be worked by the
	Jasin Rusic & "washi"