	Chapter 2 - Variables and Datatypes
, 11	A variable is the name given to a memory location in a program for example
0.14	location in a program: Tox example
	Totalion the de programme and contingue
O m x B	a= 30 Variables = Container to Store
Toma	11 11 - 14 14 17
	C = 71.22 Keywords = Reserved words in Python Identifiers = class function/variable name
heathers	The little - classification by then
Man Kin	Data Tubes
	Data Types Primarily there are following data types in Python Trategory
1, 1, 1	Integers have at marginer and it still
17.	Floating point numbers 20 miles were
37	Gleino () and a south of the s
	Booleans Thinks working and real
4,	None H miles more margord and sale
52	Mother Milagor Milagor Milagord and James
	Puthon is a Contactic language that automatically
	Python is a fantastic language that automatically identifies the type of data for us.
	mentifies the type of min 100 hs.
	a = 71 \rightarrow Identifies a as classint>
	b = 88.44 => Identifies b as class effort?
	b = 88.44 => Identifies b as class <float> name = "Harry" => Identifies name as class < 5tr></float>
	Rules for defining a Variable name - Also applies to other Hurtyless A variable name can contain alphabets, digets
· →	A variable name can contain Albhabets disels
	1 .71/M1 11/M11/M11/M .
\rightarrow	A variable name can only start with an alphabet
	WATER WINDOWS COLD .
→	A variable name cant start with a digit No while space is allowed to be used inside
→	No while space is allowed to be used inside
	a variable name.

Examples of a few variable names are: harry, ones, seven, _seven etc. Operators in Python following are some common operators in Pytho 1. Arithmetic operators => + - + / etc. 2.7 Assignment operators => = + = - = etc. 3. Comparison operators => == > >= z,!= 4. Logical operators => and, or, not	
Operators in Python following are some common operators in Pytho 1. Arithmetic operators => + - , * / etc. 2.7 Assignment operators => = , + = , -= etc. 3. Comparison operators => == , >= \(\), >= \(\), != 4. Logical operators => and, or not	
Operators in Python following are some common operators in Pytho 1. Arithmetic operators => + - , + / etc. 2.7 Assignment operators => = , + = , -= etc. 3. Comparison operators => == , >= \(\) > = \(\) / = \(\) / Logical operators => and, or not	
Operators in Python following are some common operators in Pytho 1. Arithmetic operators $\Rightarrow + - + / etc.$ 2.7 Assignment operators $\Rightarrow = + = - = etc.$ 3. Comparison operators $\Rightarrow = = - > > = 2, ! = 4$ 4. Logical operators \Rightarrow and or not	
tollowing are some common operators in Pytho 1. Arithmetic operators => + - + / etc. 2. Assignment operators => = , - = etc. 3. Comparison operators => == > , >= ∠,!= 4. Logical operators => and, or, not	on:
3. Comparison Operators => == ,> ,> = ∠,!= 4. Logical operators => and, or, not	on:
3. Comparison Operators => == ,> ,> = ∠,!= 4. Logical operators => and, or, not	_
3. Comparison Operators => == ,> ,> = ∠,!= 4. Logical operators => and, or, not	
3, Comparison Operators => == > >= \(\zerright) = \(\zerright) = \) 4, Logical operators => and, or, not	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	etc.
10 10 10 10 10 10 10 10 10 10 10 10 10 1	
type () function and lypecasting	1 4 4 4 4
type () function and Typecasting type function is used to find the data type a given variable in Python	be of
a given variable in Python.	
Q = 31	1
type(a) => class <int></int>	
b = "31"	
type (b) => class 25tr>	1
A number San be converted into a String of Vice versa (If possible) There are many functions to sonvert one of into another	and
Vice versa (If bossible)	
There are many functions to convert one of	lata type
into another	JJ
Str (31) => "31" => Integer to String Con	version
5fr(31) => "31" ⇒ Inkger to String Conv int("32") ⇒ 32 ⇒ String to Inkger Conv float (32) ⇒ 32.0 ⇒ Inkger to Float Conv	NVKion
Clost (32) => 32.0 => Integer to Float Cana	Wian
7,000	- LIVIL
oss and so on	
	1
Here "31" is a string literal and 31 a numeric literal	F 1

•	
	Injute) function This function allows the user to take input from the keyboard as a String
	This function allows the user to take input
	from the keyboard as a string
la.	a = input (" Enter name") => If a is "harry" the
	user entered harry
	10 = - = 1 = 1 = 1 = 1 = 1 = 1 = 1
. 7	It is important to note that => If a is "34" us the output of input is always entered 34 a string (even if the number
	the output of input is always entered 34
	a string (even if the number
	is entered) privariage has not and dady
40	india man ou proportion and the man sure adder
<u>, , , , , , , , , , , , , , , , , , , </u>	of given jourable in Refrien
	1 \ - 0
	Lubela) => (lay sints
	1112 0111
31.	1/31/1
	Lube 16 1 = 2 Clark Estrone
1	A purple of air be converted into a string a
,	white versa (if torrible)
Ti E	here are many lame hors to convert me to
	notions of hi
	The state of the s
AL W	can purple of marine the state of the 149
131	the sense of the contract of t
	the final of agent years of the second of the
	Med at Mill car
	The state of the state that I want to see the state of th
	they are they have been been been been been been been be