	Chapter 2 - Variables and Datatypes
ille	A variable is the name given to a memory location in a program for example
Sung	1 Holes
penferm	C = 71.22   Keywords = Reserved words in Python  Identifiers = class (function / variable name  Primarily there are following data types in Python  Total total control of the control of
27	Floating point numbers 20 miles were
37 4, 5,	Booleans None H maldon an mother manipord and lade
	Python is a fantastic language that automatically identifies the type of data for us.
	a = 71 ⇒ Identifies a as class <int> b = 88.44 ⇒ Identifies b as class &lt; flat?  name = "Harry" ⇒ Identifies name as class &lt; 5tr&gt;</int>
· →	Rules for defining a Variable name -> Also applies to other Hurtyen A variable name can contain alphabets, digets and underscores.
<u>→</u>	A Variable name can only start with an alphabet and underscore.
$\rightarrow$	A variable name cant start with a digit
<b>→</b>	A variable name cant start with a digit No while space is allowed to be used inside
He.	a variable name.
The state of the s	

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
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	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 number of air be converted into a string a
,	white versa (if torrible)
Ti E	here are many lame hors to convert me de
	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 co.
	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

Chapter 2 - Practice Set
Write a Python program to add two numbers
Write a Python program to find remainder when a number is divided by Z
(heck the type of the variable assigned using input () function.
use Comparison operators to find out whether a given Variable a is greater than b' or not.  Take a = 34 and b = 80
Write a python program to find average of two numbers entered by the user.
Write a python program to calculate square of a number entered by the user