	Prabodh—
	Chapter 2
	Chapter 2.  Variables and Datatypes
	Explicitly to the contract of the contract of
	A variable is the name given to a memory location in a program. for e.g.
	memory location in a program, for e.g.
	CI = 72;
	b= "Abhinay"
	0= 72; b= "Abhinay" C= 99.99
1000	o o nicial fireto especial a mais allibricana di la se-
<b>→</b> D	Nariables = Container to store avalue.
-D	Nariables = Container to store avalue. Keywords = Reserved word in Python.
<b>-</b> ⊅	Identifiers = Class/function/variable name
	Datatypes
	Primarily there are following data types
	Primarily there are following date types in Python.
	The said of properties to serve the same of the
1.	Integers
2.	Floating point numbers
3,	Strings
1,	Booleans
<b>3</b> ,	None
	from the form
	Python is a fantastic language that automatically identifies the type of data
	automatically identifies the type of data
	for us
	- C/A 1: 1 minor of the contract of the contra
	a = 72 # Identifies a as class (int)

b= "Abhinay"# Identifies & as classestr> c= "8.2 # Identifies c as classestoat>

Rules for defining a Voriable name Also applies to other Identifiers. - A variable name can contain alphabets, digits and underscore. A variable name can only start with an alphabet and underscore.

A variable name cannot start with a digit. No while space is allowed to be used inside a variable name. Examples of a few variables names are: abhinay, one9, Seven, \_twinkle etc. Operators in Python following are some common operators in Python. 1. Arithmetic operators => +,-,\*,/ etc. Assignment operators  $\Rightarrow = , + = , - =$  etc. Compasision operators  $\Rightarrow = = , > , > = ; l =$  etc. Logical Operators  $\Rightarrow$  and, or, not Type function and Typecasting
Type function is used to find the clata type of a given variable in Python. Q= 31 type (a) => class Lint>

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	b = "Manisha"
	type(b) => class(str)
	- pratiksha = 99.92
	type (-pratiksha) => class (float)
,	A number can be converted into a string
<u></u>	and via versa (If possible)
	There are many functions to convert one data type into another.
	one data type into another.
. (	at a (OA) = 1 Part of the Consugarity
	str (31) => "31" => Integer to String Conversion
	int ("32") => 82 => String to Integer float (32) => 32.0 => Integer to float
	+1001 (32)=> 32.0 => Integer to +1001
	siend 30 on a salfadi
K	Ham "01" is a string literal and 21 e
	Here "31" is a string literal and 31 a numeric literal.
- 1	Input() function This finction allows the user to take
	Trout () function
, ,	This function allows the user to take
7	This function allows the user to take input from the Key board as a string.
	a = input ("Enter name")
-	If a is "twinkle", the yser entered
	twinkle
	It is important to note that the output
	of input is always a string
	Of input is always a string Ceven if the numbe is entered) If a is "34" user entered 34
	If q is "34" user entered 34

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	Chapter 2
	Chapter 2 Practice Set
<u>Q.1</u>	Write a python program to add two
	numbers?
(O O a	to a Delland Declaration 16 God
Q.2	Write a Python program to find remainder when a number is divided
t -	by 2.
	· rentinger to it contracts
0.4	Check the type of the variable assigned
	Check the type of the variable assigned using input () function.
	Laboration is markety to the control of the
<u>(a. 3</u>	Use companision operators to find out whether a given variable a is greater than 'b' or not take a = 34 and b=80.
	whether a given variable a is greater
	than b' or not take a = 34 and b=80.
<b>(</b> 0 c	The but moth parts of the second
<u>Q.5</u>	Write a python program to find everage of two numbers entered by the user.
	of two numbers entered by the user.
D.6	Write a Pathon ornaram to calculate
	Write a fython program to calculate square of a number entered by
	the User.
- 3 - 1	