

Class : VII

Topic : Play with python

Month : July - 2026

Notes of Lesson

Answer the following questions:

- 1) Explain the rules to be followed while naming a Variable.

Ans) The rules to be followed while naming a Variable.

- (1) Use only letters, numbers and the underscore (_) symbols.

Example of Valid Names :

Name, Roll number, test _ 1 _ score

Example of Invalid name :

\$ Name, ! Roll Number, @ test _ 1 _ score

- (2) The first character can be only a letter or an underscore (_), nothing else.

Example of Valid names:

_ name, Score, points

Example of Invalid Names:

_ name, * _ points

(3) Do not use space in Variable names.

Example of Valid name:
Top_Score

Example of Invalid name:
Top score

(4) Do not use python's Keywords or Commands as Variable names.

For Example, you cannot name a Variable as "print" or "if".

(5) Python is Case-sensitive.

It means, "Average" and "average" are different Variables.

2) Define Typecasting. List all the functions used for typecasting.

Ans) Typecasting is the process of converting one data type into another data type.

The following functions are used for type Casting.

Other type to integer	int()
Other type to String	str()
Other type to float	float()

other type to Boolean bool()
 other type to list list()

3) Name all the relational Operators used in the python programming language

Ans. Following are relational operators used to compare and determine the program flow.

Operator	Name
(1) ==	Equal to
(2) !=	Not Equal to
(3) <	Less than
(4) <=	less than or equal to
(5) >	Greater than
(6) >=	Greater than or equal to

4) List logical Operators and its use.

Operator	Use
and	Used to check if BOTH statements are correct.

not

Used to check if the OPPOSITE of the statement is correct.

or

Used to check if AT LEAST ONE of the statement is correct.

5) What are types of comment lines in python?

ans) There are two types of comment line in python.

1) Single line Comment - indicated using # symbol.

2) Multiple-line Comment - indicated using ''' Triple quotes in coding.

These comment lines are indicated in the program is for coder reference, the compiler ignores data given after comment symbol.

Competency Based Question:

1. What are various datatypes in python

1. A programmer writes `print (type (5+7.0))`. What output will it show and why?

Ans) Output : `<class 'float'>`

Reason: Adding an integer and float gives an output as float.

2. What is the difference between "=" and "==" in python?

Ans) = means Assignment Operator and
== means Comparison Operator