

INTRODUCING PYTHON

CLASS VIII CH6

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CHANGING YOUR TOMORROW

LEARNING OUTCOME

- *Variables in python*
- *The Assignment operator*
- *Rules to writing variable names*

VARIABLES IN PYTHON

- Variable is a named memory location where value can be stored. It can be changed time to time as per programming requirement.
- A variable can store one value at a time.
- When a new value is stored in a variable, previous value gets overwritten

ASSIGNMENT OPERATOR

- = is the assignment operator which is used to assign value to a variable.
- A=10

RULES TO WRITE VARIABLE NAMES

- There are certain rule in python which have to be followed to form valid variable names.
- A variable name must start with an alphabet or an underscore(_)
- A variable name can consist of alphabets, digits, and underscore. No other character is allowed.
- A Python keyword can't be used as variable name.

VALID/INVALID VARIABLE EXAMPLE

NOTE

- A variable name can be of any length.
- Variable names are case-sensitive (e.g., Age and age are different variable names).

Examples of some **valid** variable names are:

`Class, emp_code, totsalary, minvalue, bal_fee, age1980, a45r`

Following are examples of some **invalid** variable names:

Variable Name	Reason
<code>Employee code</code>	Space is not allowed in a variable name.
<code>10code</code>	Variable name cannot start with a digit.
<code>A.B.C. Ltd</code>	. is not allowed in a variable name.
<code>ABC@ltd</code>	Special characters are not allowed in a variable name.
<code>else</code>	'else' is a keyword in Python, so it cannot be used as a variable name.

Recaptulation

The most important features of python are

- Variable is a named memory location where value can be stored. It can be changed time to time as per programming requirement.
- = is the assignment operator which is used to assign value to a variable.

A variable name must start with an alphabet or an underscore(_)

A variable name can consist of alphabets, digits, and underscore. No other character is allowed.

A Python keyword can't be used as variable name.

HOME ASSIGNMENT

- 1 what is Variable?
- 2. what are the rules to naming a variable.
- 3. give the examples of valid and in valid variable

THANKING YOU
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