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Importance of Identifers / Variables

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=>We know that all the literals (Values) are stored in main memory. To process the data / values / literals, we must give distinct names to the created memory space where the values are stored. These distict names identify the values and hence distinct names are also called "IDENTIFIERS".

=>Identifier Values can be changed / Varying during exection of the Program and Hence Identifiers are also called Variables.

=>Def. of Variable:

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=>A Variable is an identifer , whose value is chnaging / Varying during exection of the Program.

=>All the inputs / Values / Literals must be stored in the form of Variables.

=>Hence All the Variables are always treated as OBJECTS( bcoz behind of the variables we have data types and they are CLASSES )

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Rules for Using Identifers / Variables in Python Program

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=>To Use Identifers / Variables in Python Program, we must follow the following Rules

1) The Variable Name is a combination of Alphabets (A-Z,a-z), digits(0-9) and a special symbol Under Score ( \_ )

2) The First Letter of the variable Name must starts with either an Alphabet or with an Under Score ( \_ )

Examples:-

1sal=23----------Invalid

#sal=23.4-------Invalid

$name="python"-----invalid

sal1=23.45-----valid

\_sal=2.5-----Valid

\_1=23------Valid

\_$=3.4------Invalid

\_\_="python---valid

3) Within the variable name , No special Symbols are allowed except Under score ( \_ )

Example:-

emp sal=34.56-----Invalid

emp&sal=1.2---------Inavlid

emp\_sal=34.56----valid

emp-sal=1.2-------invalid

4) Key words can't be taken as Variable Names (Key words are the reserved words and they some specific meaning in the language and we can't change)

Example:

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int=123----------valid

while=23.45------invalid, bcoz 'while' is kwd

if=12.34------------invalid, bcoz 'if' is kwd

\_while=23.45------Valid

while\_=23.45----valid

while1=12--------valid

1while==13-------invalid

5) Python Programming Is one of the Case Sensitive Language.

Examples:-

AGE=123--------Valid

age=18-----------valid

Age=44----------valid

aGe=11----------valid

agE=99---------valid

AGe=88-------- valid

Note- here all the variable names sounds and meaning same but whose valuesd are different bcoz they case sensitive

Note:- It is always recommended to the python Programmers to take user frindly variable Names.

Example: ibm emp sal=123-----invalid

ibm\_emp$sal=123---invalid

ibm\_emp\_sal=345--valid