1. In the below elements which of them are values or an expression? eg:- values can be integer or string and expressions will be mathematical operators.

Answer:

\* - expression

'hello'-Values

-87.8- values

- -expression

/ -expression

* -expression

6 -values

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2.What is the difference between string and variable?

Answer:

String: string is nothing but the sequence of characters or set of characters and its immutable and needs to be stored in quotes

Examples:”hello”-it is string

Variables:

Its is used to store the any kind of data or simply its reserved memory locations to store any kind of values in it.

Example:x=1 ,here is x is variable

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3.Describe three different data types.

Answer:

Integer-its is used to store integer values ,any positive or negative values can be stored in it

Ex: x=1

Float-its used to store any decimal values in it

X=23.2

String:its used to store the sequence of charaters in it which needs to be enclosed with a doube quotes

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4. What is an expression made up of? What do all expressions do?

ANSWER:

Expression is made of operator and operands together to produce a output it.

For example:

A=3

B=5

C=A+B-🡪EXPRESSION

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5. This assignment statements, like spam = 10. What is the difference between an expression and a statement?

ANSWER:

ASSIGNMENT JUST CREATES THE VARILABLE AND STORE THE VALUES IN IT.IT DOES NOT DO ANY KIND OF OPERATIONS .

WHERE AS EXPRRESSION IS USED TO EVALUATE SOME VALUES ,it does some operation and produce a result.

6. After running the following code, what does the variable bacon contain?

bacon = 22

bacon + 1

Answer:

Bacon will contain 22

7. What should the values of the following two terms be?

'spam' + 'spamspam'

'spam' \* 3

ANSWER:

'spam' + 'spamspam'=’spamspamspam’

Spam\*3=’spamspamspam’

Both will give same out put

8. Why is eggs a valid variable name while 100 is invalid?

Answer:

Variable name should always starts with letter or \_ ,it should not start with special characters or numbers.

9. What three functions can be used to get the integer, floating-point number, or string version of a value?

ANSWER:

Below functions can be used

**int() , float() , and str( )**

10. Why does this expression cause an error? How can you fix it?

'I have eaten ' + 99 + ' burritos.'

Answer:

99 is type integer we cant able to add integer to string

It can be fixed as ‘99’🡪making 99 is string where we needs to enclose it as double quotes