1. In the below elements which of them are values or an expression?

Answer

\* Expression (mathematical operator)

'hello' Value (string)

-87.8 Value (float)

- Expression (mathematical operator)

/ Expression (mathematical operator)

+ Expression (mathematical operator)

6 Value (integer)

1. What is the difference between string and variable?

Answer

String –

* String is a data type.
* It is used to represent a text as a sequence of characters.
* String typically enclosed with quotation mark (‘ ‘ or “ “)

Variable –

* It basically refers to a value stored in memory.
* Variable are used to store different data type like string, number…etc

1. Describe three different data types.

Answer

1. Integer

It represents the whole number that should be positive or negative without any fraction.

Eg. 9, 10, -44 etc

1. Float

It represents the number with decimal point or fraction.

Eg. -30, -3.14, 0.33 etc

1. String

* It is used to represent a text as a sequence of characters. String typically enclosed with quotation mark (‘ ‘ or “ “)

Eg. “Guru”, “8765”

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

Answer

Expression is made up of variable and operators. It is a combination of values, variables, and operators that evaluates to a single value.

1. What is the difference between an expression and a statement?

Answer

Expression: It is used for creating a variable or displaying value.

Statement: It is a unit of execution or action.

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

bacon = 22

bacon + 1

Answer

23

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

'spam' + 'spamspam'

'spam' \* 3

Answer

'spam' + 'spamspam'

spamspamspam

'spam' \* 3

spamspamspam

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

Answer

Because variable cannot start with number.

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

Answer

For integer ----- int()

For floating point ------- float()

For string ------ str()

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

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

Answer

We can concatenate only str to str (not int)

For above solution is

'I have eaten ' + str(99) + ' burritos.'