

Question 1.

What are the differences between operators and values in the following?

*

'hello'

-87.8

-

/

+

6

Answer 1:

Operators	Values
*	-87.8
'hello'	
/	
+	
6	

Question2.

What is the difference between string and variable?

spam

'spam'

Answer 2:

A string is a literal text string, i.e. 'Hello'.

A variable is something that stores data - it can store a string, int, float, class, etc.

From above: spam is a variable and 'spam' is a string.

Question 3.

Describe three different data forms.

Answer 3.

Three data forms:

- int: Positive or negative whole numbers (without a fractional part) e.g. -10, 10, 456, 4654654.
- bool: Data with one of two built-in values True or False. Notice that 'T' and 'F' are capital.
- float: Any real number with a floating-point representation in which a fractional component is denoted by a decimal symbol or scientific notation e.g. 1.23, 3.4556789e2.

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Question 4.

What makes up an expression? What are the functions of all expressions?

Answer 4:

Definition: An expression is any combination of operators, literals and variables.

Function of all expressions is that all helps to evaluate to single value.

Question5.

In this chapter, assignment statements such as spam = 10 were added. What's the difference between a declaration and an expression?

Answer 5:

Declaration message assign the value to the variable.

Expression is operands followed by operators and evaluates to single value

Question 6

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

bacon = 22

bacon + 1

Answer 6: Output for the bacon variable – 23

Question 7.

What should the values of the following two terms be?

'spam' + 'spamspam'

'spam' * 3

Answer 7:

- i. 'spamspamspam'
- ii. 'spamspamspam'

Question 8.

Why is it that eggs is a true variable name but 100 is not?

Answer 8:

Because the variable names does not start with any numerical value, in this case eggs is a word starts with alphabets so that is a variable but 100 is a numeric values starts with number so it can't be a variable.

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Question 9.

Which of the following three functions may be used to convert a value to an integer, a floating-point number, or a string?

Answer 9:

int ()
float ()
str ()

Question 10.

What is the error caused by this expression? What would you do about it?

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

Answer 10:

99 is an integer value, it cannot concat with string value, for successfully execution we have to convert that integer value to string type i.e '99'

Correct form: 'I have eaten ' + '99' + ' burritos.'

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