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.

ANSWERS

\* - Expression

'hello' - Value

-87.8 - Value

- - Expression

/ - Expression

* - Expression

6 - Value

2. What is the difference between string and variable?

ANS – String is one of the type of variable data and variable is the data set we choose in a function to execute.

3. Describe three different data types.

ANS – 1) Int – Integer is a type where we have numerical e.g. 1,2,3,4,etc.

2) Str – String data type is one which contains data inside inverted comma and which make up a statement form e.g. “hello, Ineuron!”

3) Bool – Boolean is the type where we get confirmation/clearance of statement whether it is true or false statement .

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

ANS – Expression is made up of combination of two or more operation such as 2+5 will give outcome as 7, which is example of arithmetic expression.

Expressions combine all the operation of the code and give as desired solution output.

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

ANS – Statement is the normal data of code and expressions are the solution set of code after execution. Expressions combines all the operations and gives you output by processing the code statement.

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

bacon = 22

bacon + 1

ANS - 23

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

ANSWER

'spam' + 'spamspam' - ‘spamspamspam’

'spam' \* 3 - ‘spamspamspam’

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

ANS – Because 100 is a integer type and need to be assigned to some variable to be described.

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

ANS – let x be a function. To convert it into integer :- x = int(x)

To convert it into floating-point number :- x = float(x)

To convert it into string :- x = str(x)

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

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

ANS – Above expression caused as error because 99 isn’t a string type. In order to complete the expression we need all variables of same data type.

We can fix it be adding 99 into inverted commas as like below

‘I have eaten’ + ‘ 99 ‘ + ‘burritos.’