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.

Ans. \* --> expression

'hello' -->Value

-87.8 -->Value

- --> expression

/ --> expression

* --> expression

6 -->Value

2. What is the difference between string and variable?

Ans.

String -> It is a datatype used to store text or a group of characters. Ex. ‘dog’,’horse123’ etc.

Variable -> It is used to store datatype or we can say it is a name associated with a datatype

1. Describe three different data types.

Ans.

Integer -> It stores whole numbers.

Floating Number -> It can store real numbers.

String -> it is used to store text .

Boolean-> It can store only two values either true or false.

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

Ans.

Expression is a statement that equates to a value. Expression is made up of operators and operands that is values ,variables or functions.

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

Ans.

Statement is a line of code that performs an action while expression is a statement that evaluates to a value.

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

bacon = 22

bacon + 1

Ans.

22

Reason. In 1st line bacon is assigned value of 22 while in second line it is added with one and not incremented.

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

'spam' + 'spamspam'

'spam' \* 3

Ans.

‘spamspamspam’ will be the output in both the cases.

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

Ans.

Variable name cannot start with number.

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

Ans.

Integer ->int(), floating-point number-> float(), string -> str()

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

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

Ans.

This expression causes error because of typeerror as int cannot be added with string.

It can be fixed by converting int to string using str function.

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