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.

\*

'hello'

-87.8

-

/

+

6

ANSWER.

\* : expression because it is a mathematical operator

'hello' : value

-87.8 : value

- : expression

/ : expression

+ : expression

6 : value

2. What is the difference between string and variable?

ANSWER.

A string is a sequence of character that can be letters, numbers, or symbols, that are treated as text.

Example:

“number”, ”Raj”, etc

A variable is used to store the data.

Example:

X = 5 here X is a variable which contains value 5.

3. Describe three different data types.

ANSWER.

1. Integer(int) : whole no. without any decimal.
2. Float: number having decimal point
3. String(str) : sequence of letters, numbers, symbols, enclosed in single or double quotes.

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

ANSWER.

Expression is made up of operators(+ - \* /). They are used to calculate value.

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

ANSWER.

Expression can be solved but statement is used to declare the value.

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

bacon = 22

bacon + 1

ANSWER.

It will be 23.

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

'spam' + 'spamspam'

'spam' \* 3

ANSWER.

'spam' + 'spamspam' : ‘spamspamspam’

'spam' \* 3 : ‘spamspamspam’

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

ANSWER.

Variable should contain alphabets not integer.

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

ANSWER.

int(value)

float(value)

str(value)

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

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

ANSWER.

Here 99 is the cause of error . 99 is not a string it is an integer .

Correct : 'I have eaten ' + ‘99’ + ' burritos.'