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

-

/



Ans: / , + , -, \*

6

2. What is the difference between string and variable?

Ans …

X = ‘beleth ’

Here: ‘beleth’ is a string which is just a word , enclosed always in a ‘ ’ or “ ”

X is a variable ie it can contain other object other than strings to like a number

X = 10

3. Describe three different data types.

Ans

Int = integer data type typically used to signify a whole number

Str = string data type hence it’s a word or text usually

Bool = only Boolean values like True or False

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

ans

Expression are combination of mathematical operators and some variables and constant

Usually used to form the functions for some specific operations or output in a code

For m =5

Y = mX + 10

Y is variable that stores our output

X is variable that stores our input

m is a variable = 5

10 is a constant value added to Y

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

Expression is only a expression as long as it contains a condition or gives a output value where as Statement is anything that makes any line of code

Hence every expression can be called a statement but not all statements are expression

X = 10 is a statement but not a expression

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

bacon = 22

bacon + 1

ans 22, as 23 is not yet assigned to it

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

'spam' + 'spamspam'

'spam' \* 3

Ans : ‘spamspamspam’

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

Var or identifiers cant start with a digits or number

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

Int(10)

Float(10)

Str(10)

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

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

String cannot be added with numbers

To fix this ..

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