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.

\* = Its a mathematical operator for multiplication.

'hello' = its a string value.

-87.8 = its a float value.

- = mathematical operator for substraction & also used has a underscore for varibale name etc.

/ = mathematical operator for division nad also slash used for set for the path etc.

* = mathematical operator for addition

6 = numerical value integer.

2. What is the difference between string and variable?

Ans: A string is a value which can put it in quotes “ “, and it stores in varibale. Varibale is memory location which can stores with all types of data in it.

3. Describe three different data types.

Ans: Numaric - In numaric have a integer = 55, float = 55.7866, complex = 55+5j in complex we can’t use any value either j

String - string value which assigned in quotes, stores in a variable.

Boolean - its have 2 values which are True & False.

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

Ans: Expression madeup of a values, variables, operators and calls to the functions.

If we try to print the expression the interpreter evaluates the expression and

Display the results.

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

Ans: Expression is always produes a result value or return value. Statement may or may not

Produce the result.

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

bacon = 22

bacon + 1

Ans: the variable bacon contain 22 only

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

'spam' + 'spamspam'

'spam' \* 3

Ans: Both are same outputs has ‘spamspamspam’

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

Ans: simple variable name takes the alphabets & \_ underscore , its not takes the numarical & special characters.

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

Ans: integer is int() , Float is float(), string is str().

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

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

Ans: When we concatinate the data its should be in same data type, here we have string and integer value. we can’t concatinate the numaric value with string value.

x=str(" 'I have eaten ' + 99 + ' burritos.' ") we can convert it into string