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:- values- ‘hello’ , -87.8 ,6

Expression- \*, - , /, +

2. What is the difference between string and variable?

Answer:- string is a type of information (data type) and variable stands for a set of information stored. For e.g. ‘Hello world ‘, ‘its 2021’ are strings and now if we store these information in A, then our A will be a variable with string data type objects.

3. Describe three different data types.

Answer: - 1. Strings – contains all characters, words, & texts . Strings always start and end with quotes (like “this” or like ‘this’).

2. Integer – this contains natural numbers

3. Float – contains logical decision like true and false

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

Answer:- expression is made up of values, variables and operators. It helps to evaluate down combinations of different value to a single value.

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

Answer:- Expression helps to evaluate any value and statement is everything that we code to perform any task.

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

Bacon = 22

bacon + 1

answer:- 23

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

'spam' + 'spamspam' = ‘spamspamspam’

'spam' \* 3 = ‘spamspamspam’

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

Answer:- eggs a valid variable name while 100 is invalid as variables cannot be defined by an integer or number.

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

Answer:- integers – int()

Float value – float()

String – str()

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

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

Answer:- the error is shown because we are connecting two different data types (an integer with a string)

And to solve this issue we can put quotes over 99 as ‘99’ which will make 99 a string element and our output will be 'I have eaten 99burritos.'