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

Ans) 1. \* , - , / , + are the mathematical operators or used for expressions

2. 6 and -87.8 are numbers

3. ‘hello’ is string

2. What is the difference between string and variable?

Ans) A string is a type of information you would store in a variable.

A variables are symbols that you can use to store a data in a program.

3. Describe three different data types.

Ans) The three different data types are:

String, Float and Integer

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

Ans) An expression is a combination of operators and operands that will performs to produce some other value. It performs mathematical calculations or operations it composes of mathematical operators like +, - , \, \*, \*\* etc combined with numbers

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

Ans) 1. Expression performs mathematical operations or calculations

2. Statement can be series of strings between quotes (“” )can be assigned to a variable

for example:

spam=”spam” → this is the string

spam = 10 → Here we are assigning 10 to spam

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

bacon = 22

bacon + 1

Ans) bacon=22

bacon + 1

Here we are adding +1 to number 22 which is stored in bacon .so after running the code now bacon contains the number 23 (22+1)

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

'spam' + 'spamspam'

'spam' \* 3

Ans) 1. First statement output is - spamspamspam

2. Second statement output is - spamspamspam

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

Ans) variable cannot be numeric number. variable an alpha numeric

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

Ans) integer → int() , Floating point-→ float() , string-→ str()

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

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

Ans) 1. Above expression must be assigned to variable

2. Expression must be modified to – 'I have eaten ' + '99' + ' burritos.'