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 combination of characters. While variables are used to store , assign and execute any type of data in a program.

3. Describe three different data types.

Answer: Integer, string, Boolean

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

Answer: Expression is a combination of variables, operator and operands. Expression are used for instructing the system to do a task.

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

Answer: Spam=10 is a statement. Whereas Expression has a combination of variable, data ad operator. For example: y=4+5, where ‘y’ is the variable, ‘+’ is the operator ‘4’and ‘5’ are the operands.

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'

'spam' \* 3

Answer: spamspamspam

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

Answer: ‘eggs’ is string used a variable to store a data. But ‘100’ is a data of type ‘int’.

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

Answer: int(), float(), str() respectively.

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

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

Answer: Concatenation of a string and a int is not valid. So making 99 as a string would fix the error

'I have eaten ' + ‘99’ + ' burritos.'