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: values – “hello”,-87.8, 6

Expression - \*,-, /,+

2. What is the difference between string and variable?

Ans: String is a datatype which will be assigned as a value to the variable. It is written between “ ”,’ ‘, “’ “’. Ex: “book”, “67”

Variable is used to store the information.

3. Describe three different data types.

Ans: 1. Booleans : Booleans are true or false statement

2. Integers: Integers are whole numbers. Eg: 5,35,768

3. String: String is a datatype which will be assigned as a value to the variable. It is written between “ ”,’ ‘, “’ “’. Ex: “book”, “67”

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

Ans: Expressions are representation of values. Expressions will do mathematical operations.

Eg: a = 2

b = 3

c = a\*b

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

Ans: expressions are values, mathematical operators and the statements are the commands like if, elif, while etc.

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

bacon = 22

bacon + 1

Ans: 22

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?

Ans: Since 100 is an integer it cannot be assigned as a variable. So it is invalid.

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 number – float()

string – str()

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

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

Ans: 99 is an integer. ‘I have eaten’ and ‘burritos’ are string. String and integers cannot be concatenated. It can be fixed by using str(99).