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.

\* => expression

'hello' => value

-87.8 => value

- => expression

/ => expression

* => expression

6 => value

2. What is the difference between string and variable?

Ans: Variables are stores data values and string are values which are surrounded by single quotation marks or double quotation marks.

3. Describe three different data types.

Ans:

Text Type: str

Boolean: True or False

Numeric: int, float

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

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

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' => spamspamspam

'spam' \* 3 => spamspamspam

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

In Python, variable name must start with a letter or the underscore character.

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

Int()

Float()

Str()

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

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

Ans:

99 is an int which cannot be concatenated hence surround by quotation marks.

'I have eaten ' + ‘99’ + ' burritos.'