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.

\* - Mathematical Operator (Multiplication)

'hello' - String

-87.8 - Float

- - Operator (Subtraction)

/ - Operator (Division)

* Operator (Addition)

6 - Integer

2. What is the difference between string and variable?

Ans.- String is value representing text & variable is a name that refer to any value .

3. Describe three different data types.

Ans. - 1. Integer 2. String 3. Float

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

Ans. - An expression in Python is a combination of operators and operands. Expressions evaluate (that is, reduce) to a single value.

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

Ans.- An expression evaluates to a single value. A statement does not.

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

bacon = 22

bacon + 1

Ans.- The bacon variable is set to 20. The bacon + 1 expression does not reassign the value in bacon (that would need an assignment statement: bacon = bacon + 1)

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

'spam' + 'spamspam'

'spam' \* 3

Ans. – Output is same (string) for both = spamspamspam

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

Ans.- Variable names can contain numbers but we can't start with numbers.

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

Ans.- Int() , float() & str()

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

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

Ans.- by adding “ ” or ‘ ’ to make string

'I have eaten ' + ‘99’ + ' burritos.'