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

Expressions- \* - / +

2. What is the difference between string and variable?

Ans: String- String is the collection of characters, words and any numerical value which is enclosed within single or double inverted comma.

Variables- Variables are the names which are used to store any value.

3. Describe three different data types.

Ans: 1. Integer- integer data type represent the numerical values without any decimal number.

2. String- String is the collection of characters, words, and any value which is enclosed with single or double inverted comma.

3. Bool- Bool store either the true or false values. True’s value is 1 and false value is 0.

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

Ans: An expression is made of the identifiers, literals, and operators. Expressions are used to represent and evaluate the values.

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

Ans: Expression is used to represent and evaluate the values while statements are used to perform some action.

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

bacon = 22

bacon + 1

Ans: 23

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

'spam' + 'spamspam'

Ans: ‘spamspamspam’

'spam' \* 3

Ans: ‘spamspamspam’

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

Ans: Variable must be start with characters or underscore. If we give variable with numbers it throw an error.

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

Ans: str() for string, float() for floating-point number, int() for integers numbers.

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

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

Ans: we can not concatenate string with the integers. We can concatenate only strings.