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

(1)Ans : values : ‘hello’ , -87.8 , 6

Expressions: \* , / , - , +

2. What is the difference between string and variable?

2.ANS : Variables are symbols that you can use to store data. Strings are data, so we can use them to fill up a variable.

3. Describe three different data types.

Ans : Numeric, Boolean ,Sequece type

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?

Ans: A statement is a group of expressions and/or statements that you design to carry out a task or an action. An expression is any word or group of words or symbols that is a value. In programming, an expression is a value, or anything that executes and ends up being a value.

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

bacon = 22

bacon + 1

Ans : after running the above code, the variable bacon still contains 22.

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

'spam' + 'spamspam'

'spam' \* 3

Ans: The values of the two terms are same but did it in different method or ways

The above two terms get same output as ‘spamspamspam’

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

Ans:

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

Ans : int() for integer value ,

float() for floating-point number ,

str() for string

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

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

Ans: The expression causes an error because 99 is an integer, and only strings can be concatenated to other strings with the + operator.

The correct way is I have eaten ' +’99’ + ' burritos’.