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 word implies which can take different values and are meant for storing the values. On the other hand, string is a one type of value which can be filled up in the variable

3. Describe three different data types.

Ans: Integer, String and Boolean

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

Ans: Expression is combination of operators and operands to get the some sort of result /values of interests.

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

Ans: Statements are like print (), len() while expression is interplay of variables, operators to get the desired result values.

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'

Ans: three concatenated ‘spam’ i.e 'spamspamspam'

'spam' \* 3

Ans: Three times of spam concatenated i.e 'spamspamspam'

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

Ans: As per the convention of variable is concerned, It should start from string but not numbers

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: The primitive operation can only be operated when all data types are same. In the given example- string and integer values can be added. We can fix it by putting the 99 within quotes like ‘99’.

Therefore, whole expression would look like : 'I have eaten ' + '99' + ' burritos.'