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)

What is the difference between string and variable?

Variable is a stored value whereas string is the type of value. We can declare any variable as “x=’Hello’ or x=1”. The string is the datatype of Variable X= hello. We can declare the variable as string.

3. Describe three different data types.

Str- String is a text data type. For example ‘Hello’ is an string

Int- Integer is for numbers. For example var a=1. The datatype of the variable is integer

Boolean- It is for the True and false value. 0 stands for false and 1 for True

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

An expression is a condition and the structure of values, variables, calls etc. After adding the conditions and combining the values. The interpreter evalues the entire results and displays the result.

X= len(‘’Hello’)

Print(X)

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

Statement is ‘’=’ which assignes the value to a variable in the Spam. An expression is the combination of variables, values etc. The assignment operator can be used to create an expression.

X=20

Y= ‘Hello’

Print (x)

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' = ‘spamspamspam’

'spam' \* 3= ‘spamspampam’

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

Eggs is a valid name for variable. A variable name in pyton should start with a string or an alphabhet

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

For string Str(), float(), Int()

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

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

As per the statement, here we are trying to concatenate the string with an integer. Both should have same data type. We will convert and integer into string which is also known as typecasting.

Sol: 'I have eaten ' + str(99) + ' burritos.'