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.

\* expressions

'hello' String

-87.8 Value

- expressions

/ expressions

* string

6 Value

2. What is the difference between string and variable?

String is one of the data type which referes to the variable. Anything written inside the single or double quotes treated as a string.

On the other side, Variable is a name of primary memory location what we used to store values(Different data types) in the memory of our computer and we can reassign if needed.

3. Describe three different data types.

1.integer- Any number without decimal points.It can be negative or positive.In python,there is no range limit of this data type.

2.float-It is a real number with decimal(Float) points.

3. Complex-This works in two parts real(x) and imaginary(y) like x+yj.

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

An expression can be a single value like any string or number and can be combination of operand and operator which return a value.

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

An expression evaluated and produce or return a result value,while statement execute and may or may not return a result value. It only does whatever statement says.

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

bacon = 22

bacon + 1

23

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

'spam' + 'spamspam' 'spamspamspam'

'spam' \* 3 'spamspamspam'

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

As per variable rule, we can not only use numeric values. only alphanumeric, alohanumeric with underscore and sequence of alphabet can e used to create variable.

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

int(value),float(value),str(value)

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

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

Phython does not allow to concatinate string with number hence to fix it we have to use str to convert number into string then only we can perform this operation.