1. In the below elements which of them are values or an? eg:- values can be integer or string and expressions will be mathematical operators.

\*

'hello'

-87.8

-

/

6

Ans) values : 'hello', -87.8, 6

Expression : \*,- , / , +

2. What is the difference between string and variable?

A) String – it is String literal (it is a data or Any character or word) which is encoded in single (‘ ‘) or double (“”) ex: “sun”,”100”

Variable: it is an empty container that can store data of any data type ex: var = “ani”, num = 10.

3. Describe three different data types.

A) int data type – it is a whole number ex: 18

Float : it is a decimal point number ex :23.78

String - it is a character or an English words ex : ‘name’

List - it is a mutable collection of data that is enclosed between [] ex: [1,2,3,4 ]

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

A) Expression is made up of value or variables with the combination of mathematical operators which is used to calculate or validate .

Ex : num = 10

Exp = Num+5/100

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

A) assignment statements is something like assigning a value to a variable and expression is an expression used for calculation.

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

bacon = 22

bacon + 1

1. 22

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

'spam' + 'spamspam'

A ) spamspamspam

'spam' \* 3

A) spamspamspam

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

A) Variable can only be a string or any non-key words since the egg is a string it is valid and 100 is an integer it is not valid.

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

A) int( ) ,float () , str()

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

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

1. The error comes because in python string cannot be concatenated with the number to solve this issue, we need to make the number into a string.
2. Fix : 'I have eaten ' + '99' + ' burritos.'