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.

\* : Is a expression used for multiplying

'hello' : Is a value which is classified as a string.

-87.8 : Is a value which is classified as a float

- : Is an expression which is used for subtracting values.

/ : Is an expression which is used to divide values.

* : Is an expression which is used to add values.

6 : Is a value which is classified as a integer.

2. What is the difference between string and variable?

Variable is the name of the location in primary memory on your system.

String is a value which is mentioned in quotes assigned to a variable.

3. Describe three different data types.

Integer :They are fixed numbers without any decimal places.

Examples for Integer 5,100,-500.

String: A combination of elements that are mentioned in quotes or can be predefined by using expression str()

Examples of String “i-neuron” , str(ineuron)

Float: They are decimal numbers.  
Examples for Float : 999.99, -88.99

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

Expression evaluates a value its made up of variable, operators and method invocations.

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

Expression is any legal combination of symbols that represents a value. A statement is a programming instruction that does something.

Example

spam=10

spam is a variable that stores 10 which is an integer.

print(spam)

Here print is a statement which executes the output spam.

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?

Eggs 🡪 Valid

100 🡪 Invalid

Variables name can not begin with a number.

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

Integer **-Int()**

Floating-point **- float()**

String- **str()**

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

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

This expression causes error because 99 is an integer type and rest other elements are of string type.