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.

\* Operator

'hello' Expression

-87.8 Expression

- Operator

/ Operator

* Operator

6 Expression

2. What is the difference between string and variable?

A string can be either a set of characters or a mix of characters and numbers,Whereas a variable is a memory location that is used to store the data which is usually assigned by a single letter.

3. Describe three different data types.

1. int - any numerical value.
2. boolean - True/False
3. string - a mix of characters or characters and numbers .ex :- `asdf` , `kaskddk2323`

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

Expressions are made up of variables and values.they are used to define the data.

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

Here, ‘10’ is the expression.It becomes a statement when the value is assigned to ‘spam’.

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

bacon = 22

bacon + 1

The value of ‘bacon’ doesnt change. it will be 22.

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

'spam' + 'spamspam'

'spam' \* 3

‘spamspamspam’

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

Variables wont start 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.'

Error is shown as 99 is assigned as an integer.It can be fixed by Type-Casting as below:

'I have eaten ' + ‘99’ + ' burritos.'