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

- : expession

/ : expression

* : expression

6 : value

2. What is the difference between string and variable?

A string is a literal like ‘Aishwarya’ whereas a Variable is a container to store values.

3. Describe three different data types.

* Integer - int - is a whole number, positive or negative without decimals and unlimited length. Example: var1= 123456789
* List - stores collection of data in a single variable. Example: L1 = [1,2,3,4]
* String - str - Sequence of character data. Example: A= “aishwarya”

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

Expression is combination of operators and operands which produces value.

Example: a+b

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

A statement is an instruction(spam=10) and the expression having values with operands(10 - or if it had 30+40 )

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

bacon = 22

bacon + 1

Output: 23

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

'spam' + 'spamspam'

'spam' \* 3

Output will be ‘spamspamspam’

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

Variable names should start with a character and not a number

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

Ans: type()

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

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

Because it can only concatenate string but not integer.

Solution: 'I have eaten ' + ‘99’ + ' burritos.'