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.

\*

'Hello' String

-87.8 float

- Expression

/ Expression

* Expression

6 integer

2. What is the difference between string and variable?

String is always in quote, where as variable is unquoted and has some datatype

3. Describe three different data types.

String , float and integer

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

An expression is a combination of operators and operands that is interpreted to produce some other value

Example : x= 1.5+2 , x+y, c=a+ int(b), p=( c+b) >= (c-d), q>r

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

Expression is a combination of variables, operators and values which results in some other value.

Statement represents command or action. Here it is a action to assign a variable

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

bacon = 22

bacon + 1

Bacon 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?

Rules of python variable:

Variable name must start with alphabet or underscore

Variable cannot be a number

Variable can contain only alpha-numeric character and underscore

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

Int(), float() and str()

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

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

Can only concate the string to string or add numeric values only

Data\_types are different. Cannot add concate different data-types