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

- expression

/ expression

+ expression

6 value

2. What is the difference between string and variable?

string is data type of variable e.g. 'afg'. variable is pointer to memory location e.g. afg.

3. Describe three different data types.

string, integer, list, float, complex

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

expressions are made of identifiers (name of variables), literals( value of variables) and operators( like =,+,-).

expression are building clocks of a statement which in turn is smallest standalone unit of program code.

expression always evaluate to single value.

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

statement can be executed by python interpretor. It is is smallest standalone unit of program code.

statements are made of expressions like variables, values, operators.

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

bacon = 22

bacon + 1

it will have 22 only.

if its bacon +=1 then 23

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?

first character of variable in python cant be a digit.

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

int(), float(), str()

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

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

concatination of two diffrent data types int and str is not allowed.

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