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

6 --- value

2. What is the difference between string and variable?

String – This is a data type combination of characters. String defined in single or double quotation mark.

Variable – Variable is a memory which store the data.

3. Describe three different data types.

Numeric Type: int, float, complex

Boolean Type: bool

String Type: Str

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

Expression: Expression is combination of data, variable and operators.

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

Ans:

Expression: Expression is combination of data, variable and operators.

Statement: Statement is the syntax that has been executed by python interpreter.

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

bacon = 22

bacon + 1

Ans: 23

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

'spam' + 'spamspam'

'spam' \* 3

Ans: 'spam' + 'spamspam' = 'spamspamspam'

'spam' \* 3 = 'spamspamspam'

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

Ans: A variable should start with string so **eggs** is a valid variable and **100** is invalid as it start with integer.

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

Ans: int(), float() and str()

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

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

Ans: 99 is a integer number so that we can not concatenate integer with string.