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.

2. What is the difference between string and variable?

ANS: String is a type of datatype which is represented as str with single or double quotes, for example: "hello world", while variable is a score in which particular datatype is set to evaluate value to perform tasks. Variable can be any datatype for example str (), int, Boolean, float

- 3. Describe three different data types.
- A(i): Boolean: It is a type of datatype which involve the statements in either true or false accordingly. wherein T true has the value of 1 and F false
- (ii): string: Represented as 'str' and it an order of sequence of characters for example "hello", 'sammy', "2000"
- (iii): Floating point: Numbers with a decimal point. for example: 2.3, 100.0

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

 Ans: An expression is a combine form of operators and operands

 and these both interpret to produce some other value. Made up

 of variables, operators and operands.
- 5. This assignment statements, like spam = 10. What is the difference between an expression and a statement?
- 6. After running the following code, what does the variable bacon contain?

bacon = 22

bacon + 1

Answer: 23

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

'spam' + 'spamspam'

'spam' * 3

Answer: (i) 'spamspamspam'

- (ii) 'spamspamspam'
- 8. Why is eggs a valid variable name while 100 is invalid?

Ans: eggs is valid because it is beginning with letters and 100 is invalid because variable cannot begin with a number .

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

Ans: integer = int()

Floating point number = float()

String = str()

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

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

Ans: This particular expression is causing an error because strings concatenate operator (+) for strings in python doesn't know how to convert numeric types into strings implicity.