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'

-87.8

-

/

6

**Answer:** Values are 'hello', -87.8 and 6

Expressions are \*, -, /, +

2. What is the difference between string and variable?

**Answer:** Difference between string and variable is:

String will always be inside quotes (" ") whereas variables no need to be in quotes.

String is written after = whereas variables are written before =

a = (“Sushital”)

Variable =  String

3. Describe three different data types.

**Answer:** Three different data types are: Integers, Float & String.

Integers: carries numbers

Floats carries: numbers with decimals

Strings carries: alphabets

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

**Answer:** Expression are made up of mathematic rules (Addition, Subtraction, Multiplication & Division).

Expressions help us to do (Addition, Substraction, Multiplication & Division).

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

**Answer:** An expression only contain identifiers, literals and operators whereas statements are everything that can make up a line of python code.

An expression is a combination of variables, operations and values that yields a result value. Statements represent an action or command.

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

bacon = 22

bacon + 1

**Answer:** The Variable bacon will contain 23 because (bacon+1) is adding (22+1).

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

'spam' + 'spamspam'

'spam' \* 3

**Answer:** The above program will execute the last statement which will be spamspamspam.

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

**Answer:** Because variable cannot start with numbers.

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

**Answer:** We can use int() for integer, float() for floating-point and str() for string

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

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

**Answer:** Concatenate will work between two same data types. In below case it cannot concatenate string & integer.

We can use print(f" ") function to resolve this issue.