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.

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'hello' --- String

-87.8 --- integer

- --- Subtract

/ --- Divide

* --- Add

6 --- Integer

2. What is the difference between string and variable?

Ans: **String :** It is one of the data type which indicates type of data

Ex: “I am boy”

Variable : it can store data in primary memory

Ex: a = 10

3. Describe three different data types.

Ans:

int –It is one of the data type which contains numeric data, which ranges from – ∞ to + ∞

float – It is one of the data type and which contain decimal values like 2.00,3.456

list -- which can store values in ordered and we can access with index

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

Ans : An expression is a construct made up of variables, operators, and method

Expressions gives values, except they can have operations like addition or subtraction.

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

Ans: Expression represents something and results a value

Ex: (15/3)+26.8

Statement does something and it is an action like sentence

Ex: print(“hello world”)

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

bacon = 22

bacon + 1 = 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?

Ans : Eggs is a variable and variable can start with alphabet but not number

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

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

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

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

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