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 : \*, -, +, /

Value: 'hello', -87.8, 6

2. What is the difference between string and variable?

Variable is an entity that stores data.

String is a datatype of a variable.

Example: a = "Sejal"

3. Describe three different data types.

Basic data types

1) String: Data type with an array of a characters

X = "Hello World"

2) Integer: Data type that represents negative and positive values and it is represented by int class.

X = -78

3) Float: Data type that represents the real numbers and is written in a decimal point dividing the integer and fractional parts.

X = 78.5

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

An expression is made up of a values and variable. Example:

Z = 3.4 + 5

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

An assignment statement assigns a value to the variable. Here the value 10 is assigned to spam. For the expression, it always evaluates the values and produce the results.

bacon = 22

bacon + 1

bacon = 22

## 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?

In python, a variable always starts with a character. It does not use a number in the variable name.

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

- 1) int() Example: int(45.56)
- 2) float() Ex : float(11.2)
- 3) str() Ex: str(4567)

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

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

The expression contains the values with different data types. The issue can be fixed by Converting 99 in string datatype: str(99).