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

**Ans:**

**Values :** -87.8, ‘hello’, 6

**Expression:** -, /, +

2. What is the difference between string and variable?

***String is one of the types of datatype which can be stored to a variable.***

***Variable is used to store any kind of datatype***

3. Describe three different data types.

Numeric, String & Boolean.

Numeric is the number type datatype

String is the alphabets stored in between ‘ or ” or ”””

Boolean datatype returns either **True** or **False**

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

Expression is made up of variables linked with operators. Expressions does specific task which is desired to be done

Eg. In expression c=a+b, the variable c stores the summation of values of a & b

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

A statement is used to form the sequence of a program . example assigning a variable, printing a string or sentence, conditions like if, if-else, etc. while expression is a specific instruction that returns a value when executed

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

bacon = 22

bacon + 1

Ans.: **bacon = 22**

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

'spam' + 'spamspam'

'spam' \* 3

Ans.: 'spamspamspam'

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

Ans.: *Variable name cannot be just only numbers. However it can be a combination of string & numbers.*

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.: Integer & string concatenation isn’t possible. This can be executes as below:

'I have eaten ' + ‘99’ + ' burritos.' **Or**

'I have eaten ' + str(99) + ' burritos.'