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:**

‘hello’, -87.8, 6 are values and \*, - , / , + are expressions

2. What is the difference between string and variable?

**Ans:**

Variable – It is used to assign values.

String – It is one of the data type which can be assigned to variables

3. Describe three different data types.

Ans:

**Text type:** Strings – Normal alphabets comes under string. Example A, B, C… . These were presented in between “” or ‘’

example: ‘A’ or “A”

**Numeric Type**: This data type were consist of numbers

Integers: Eg …...-1,0,1……

Float: eg: …..-1.0,0.0,1.0……

Complex number: These are the number which represent both imaginary part of real part

eg: 1j.. etc

**Sequence:** This is used to represent list of item which are mutable and immutable. Eg: list, tuples

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

Ans:

Expression is made of various variables and mathematics operator and assignment operator which result in output on execution

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

Ans:

Expression will execute and provide result at the end of execution while statement may or may not give us end solution. Statement were used for establishing logical statement

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

bacon = 22

bacon + 1

Ans: 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?

Ans:

variables cant be a integer, cant start with number , shouldn’t start with special characters

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

Ans: int – for integer

float – for float point number

str – for string

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

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

Ans: different data type were being added. This gives an error. This can be corrected by converting 99 into string.