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

'hello' - value

-87.8 - expression

- expression

/ expression

* expression

6 value

2. What is the difference between string and variable?

Variables are something that we use to store date whereas string is sequence of character. For example :- city = ‘Delhi’.

Here, city is a variable whereas ‘Delhi’ is a string. Everything that comes in between ‘ ‘ is string.

A=’12’

In above statement, 12 will be treated as string.

3. Describe three different data types.

A:- int, string, list

Int:- it is a data type which contain integer value like; 0, 1,2,5,6,9,22

String:- it is sequence of character which are put in a single quote. For example :- ‘red’. Here red is put in a single quote hence is defined as string.

List:- it stores collection of data as an array. It mutable,

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

A:- Expression is made up of a variable, operator and a value. Expression returns a result after calculating. For example;

A = 10

A = A+2

In above second statement, A is variable and the whole statement is an expression which returns the value 12

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

A: spam = 10 is a statement which states that the value of spam is 10. In the statement, spam and 10 is expression.

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

bacon = 22

bacon + 1

A:- it will print 22

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

'spam' + 'spamspam'

'spam' \* 3

A: it returns an error because spamspam is not defined

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

A:-We cannot use numerical value as a variable therefore, 100 is invalid variable name.

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

A: int(), float(), str()

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

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

A:- Int cannot concatenate with string