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. In above example ‘hello’, -87.8, 6 are values and \*, -, /, + are expressions.

2. What is the difference between string and variable?

Ans. A variable is a symbol which store information and it can be restore. Information can be string, int, float etc.

While string is information in the form of text (in between ‘ ‘ or “ “), which cannot restore. but string can be stored in any variable.

3. Describe three different data types.

Ans. A) integer: any whole numbers

B) String: A sequence of character or Alphanumeric characters

C) date time: data in the form of date and time

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

Ans. Expression is made up of values/variables, mathematical operators/ logical operators and function, which give some other value.

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

Ans. Spam=10 is expression because it is a combination of operator and variable. And Statement is a command or order to computer to do some task. Like print().

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

bacon = 22

bacon + 1

Ans. Bacon contain 22.

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

'spam' + 'spamspam'

'spam' \* 3

Ans. The value of 'spam' + 'spamspam' is spamspamspam and

'spam' \* 3 = spamspamspam

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

Ans. Eggs is valid variable names because variable name should be start from alphabets not from integers.

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

Ans. Int() : integer version of value

Float (): float version of value

Str(): string version of value

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

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

This expression causes an error because we cannot add integer and string. we have to convert integer into string.

'I have eaten ' + ‘99’ + ' burritos.'