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.

| Values | Expressions |
| --- | --- |
| ‘hello’ | \* |
| -87.8 | - |
| 6 | / |
|  | + |
|  |  |
|  |  |

2. What is the difference between string and variable?

| string | variable |
| --- | --- |
| Is a sequence of characters | Is a reference that we use for the storing the data to the memory |
| String is the information | Variable is used to store information |
| Is usually denoted by “”, ‘’, ‘’’’’’ | Is declared by starting with a charecter |
|  |  |

3. Describe three different data types.

Int: used to store integer value, it can old the +ve and -ve numbers without the decimal points

Float: if we want to stire the numbers with the decimal values then we will use the float datatype

String: usually used to store non numeric value, however it is used to store any data as an object… so it can store alpha numeric values

Boolean: stored data in True/ False format

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

Ans: Expression is made up of variable and operators

All expressions will do some functionality based of defined logic and return a return

5. These assignment statements, like spam = 10. What is the difference between an

expression and a statement?

Statement has 1 command: print, assignment

Expression is a combination of variable and operator which is used to do some functionality based on some logic

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

bacon = 22

bacon + 1

Ans: bacon will store value 22, as in the 2nd statement, there was no assignment done so the variable stays unchanged

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

‘spam’ + ‘spamspam’

‘spam’\*3

Ans: Both will return the same value, as they will function s concatenation statements

'spamspamspam'

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

Ans: As variable name annot start with a number 100 is invalid… however e100 is valid variable.

Variable always starts with character

9. What three functions can be used to get the integer, floating-point number, or string

version of a value?

Ans: int(val)-- integer

float(val)-- floating point

str(val): String value

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

'I have eaten + 99 + 'burritos.'

Ans: We cannot concatenate string with an interget, we will have to first convert the value 99 by using int(99) and then can perform concatenation

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