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 – ‘hello’ , -87.8 , 6

Expression - \* , - , /, +

2. What is the difference between string and variable?

Ans : string: is a data type, used as a value , which has to store in some variable

Variable : it is a storing element which we can store strings, integers, float etc

3. Describe three different data types.

Ans: int – real numbers which are less than 0 , 0 and greater than 0 exa: -12, 0, 34 etc

Float – decimal numbers which can be positive or negative exa: 0.3, -4.2 etc

Bool – its like True or False , like only two values exa: 0 or 1

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

Ans: expression is nothing but symbols like < , > , == used to compare with one variable to other

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

Ans : Expressions are used perform calculations, retrieve data, determine conditions

Where as assignments refer to store the data into a variable

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

bacon = 22

bacon + 1

Ans : 23

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

'spam' + 'spamspam'

'spam' \* 3

Ans :

'spamspamspam'

'spamspamspam'

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

Ans : variable must be start with ‘A-Z’ or ‘a-z’ or ‘\_’ but it should not start with number

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

Str() – for string

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

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

Ans : we can concate either strings or integers individually , but not both at the same time