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' (String)

-87.8 ( Float)

- (Expression)

/ (Expression)

* (Expression)

6 (Integer)

2. What is the difference between string and variable?

Ans : String is a datatype which stores all the values(“abc”, “124”..).

Variable is an entity or element which holds data inside main memory(RAM)

3. Describe three different data types.

Ans: Integer, string, Boolean, complex,

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

Ans: Expression is made of operators(+, - , \*) and operand(a,b, 12,..etc)

Expression does all the arithmetic, logical, other operations which is helpful in analytics.

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

Expression is combination of operator and operand which looks like a=10 and it will not change in run time.

Statement is like print or return which does what its function whether o/p is present or not.

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

bacon = 22

bacon + 1

Ans: Bacon contains 23 after execution

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

'spam' + 'spamspam'

'spam' \* 3

Ans: for above expression we get “spamspamspam”

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

Ans: Variable can’t be start with numeric either it should start with \_ (underscore or alpbhets)

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

Ans:

Int(10) is 10

Float(10) is 10.5

Str(10) is “10”

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

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

Sol: 'I have eaten ' + str(99) + ' burritos.'

In the question we cant add string with integer.