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'(Values)

-87.8(Values)

- (Expression)

/ (Expression)

+(Expression)

6 (Values)

2. What is the difference between string and variable?

Variables consist of numbers. All arithmetic operations can be performed on Variables.

String consists of character. Only concatenation(+) and multiplication can be formed on strings.

3. Describe three different data types.

Integer data type: Consists of all positive and negative numbers but excludes decimals.

Float data type : Consists of all real numbers including decimals.

Boolean data type :Consists of only two data types –True and False.

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

Expressions are made up of mathematical operators. Expressions helps us to form equations to solve our problems.

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

Expression helps us to operate on a variable or values , however a statement helps us to assign value to a variable.

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

bacon = 22

bacon + 1 Answer: bacon=23

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

'spam' + 'spamspam'

'spam' \* 3

=’spamspamspam’

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

In Python a variable name should not start with an integer.So 100 is not valid.

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

int(),float(),str()

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

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

We can concatenate only string values , so the 99 cannot be concatenated. We can fix this equation by changing 99 into a string. Like this,

‘I have eaten’+’99’+’burritos.’