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.

ANS: \* is expression

'hello' is value

- is expression

/ is expression

* is expression

6 is value

2. What is the difference between string and variable?

ANS: String is a combination of characteristics enclosed in single or double quote.

Variable is a entity that holds the data.

3. Describe three different data types.

ANS:

1. Intereger: int

Interegers are the type of data which includes whole numbers

Ex: 1,2,4,5,7,8,9

1. String: str

Are the type of data which includes combination of characteristics enclosed in single or double quote

Ex: “Python”, ‘Data’

1. Float:

Are the type of data which includes fractional values

Ex: 1.23, 5.89

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

ANS:

Expressions are combination of operators and operands.

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

ANS:

Expression is a combination of values and functions that are combined and interpreted by the compiler.

Statement is just a execution and doesn’t return anything

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

bacon = 22

bacon + 1

ANS: 22

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

'spam' + 'spamspam'

ANS: ‘spamspamspam’

'spam' \* 3

ANS: ‘Spamspamspam’

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

ANS:

Data type int can not be a variable

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

ANS:

int()

float()

str()

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

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

ANS:

This expression causes an error because we can add string to intereger. We can fix in by converting int to str data type

‘I have eaten ‘+str(99)+’ burritos.’