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

expressions = \*, - , / , +

2. What is the difference between string and variable?

Ans: String is a data type and Variable is used to store the values of any data type including string

3. Describe three different data types.

Ans: T

Int: Integer is a datatype that holds integer numbers.

String: String is a datatype that holds combination of characters

Boolean: Boolean is a datatype that holds only 2 values .i.e., True or False

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

Ans: An expression is a combination of variables,operators and values that are combined and interpreted or evaluated by the compiler to get a new value.

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

Ans: A statement is just an action to execute and doesn’t return anything where as an expression is a combination of variables and functions and evaluates to get a value i.e., it returns some value back to the variable.

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

bacon = 22

bacon + 1

Ans: bacon contains 22.

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

'spam' + 'spamspam'

'spam' \* 3

Ans: Both of the above terms returns the same value. That is

‘spamspamspam’

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

Ans: Because 100 is an number and any variable name cannot begin with a number.

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: Because string can’t be concatenate with an integer. So we have to typecast number to string.

‘I have eaten’ + str(99) + ‘burritos’