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?

A string will come in quotes and and this data can be used to fill a variable while variables are used to assign a value to something or to store a data for example:

“enter the value of A” – string

A=10 – variable is A

3. Describe three different data types.

1) Integer- this can be any number without a decimal.(23)

2)float- a number with decimal. (52.6)

3)complex: a number with real and imaginary values that contain iota. (2+3i)

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

Expressions are the mathematical operators that help to solve maths division, multiplication etc. As python can also work as calculator.

Eg:- (+) addition (-) subtraction (/) division (%) modular this will give the reminder (\*) multiply

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

Expressions are the operations that are used to create a new value but in assignments we can assign a single value to a single variable. Like spam holds a value 10 in this.

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

bacon = 22

bacon + 1

23

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

'spam' + 'spamspam'

spamspamspam

'spam' \* 3

spamspamspam

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

Because variable names cant begin with a number.

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

int(“enter the value of A “)

float(“enter value of A”)

print(“enter the name”)

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

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

Because 99 is a number and have to convert to string.

'I have eaten ' + ‘99’ + ' burritos.'