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' value

-87.8 value

- expression

/ expression

* expression

6 value

2. What is the difference between string and variable?

String is something we use to denote data

Variable is data we stotre in string

Eg: a=”Mallikarjun”

a is string and Mallikarjun is variable

3. Describe three different data types.

Integer is used to denote number(1,2,0)

Float is used to deciamal numbers(1.23, 5.66)

Boolean data is used to denote True or false

Complex used to denote complex numbers(a+bj)

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

Expression is made up of mathmeaticaloperators such as + for addition , - for substraction,\* for multiplication and / for division

They perform mathematical operation.

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

In expression something is represented but where as in statement is its executed.

The end of expression is value and end of statement is sentence

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?

100 is integer data we cannot use it for string purpose

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

Int(0 , float() , str()

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

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

can only concatenate str (not "int") to str

“99”