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' STRING

-87.8 VALUES

- EXPRESSION

/ EXPRESSION

* EXPRESSION

6 VALUES

2. What is the difference between string and variable?

String is one of the many type of informations that can be stored in a variable.

Strings can be any ASCII characters, including numbers and symbols

Computational calculations cannot be performed on strings

Variable is a name that can refer to any information/ value

Variable name cannot be predefined keywords

3. Describe three different data types.

Int—Integer data type is used to store whole numbers

Str—String data type Strings can be any ASCII characters, including numbers and symbols

Float- This data type is used to store decimal numbers.

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

An expression is a construct made up of variables, operators and method invocations which are constructed according to the syntax of the language, that evaluates to a single value.

Expressions are used to produce some values using operators and operands

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

This is a statement, it initializes the value of 10 into variable named spam

Whereas in an expression is a combination of values and functions that are combined an interpreted by compiler to create new value

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

bacon = 22 ------- bacon contains string data type—" 22”

bacon + 1----- will throw error

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

'spam' + 'spamspam'======= spamspamspam

'spam' \* 3 =====error

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

Eggs is not a keyword and it does not have special characters in it, does not start with number

100=== It is a number

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

The **int() , float() , and str( )** functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

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

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

'I have eaten ' + ‘99’ + ' burritos.'