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?

Ans: Variable is used to store data whereas string is a data inside the quotes.

Variable can store integer, float, string, class etc .

3. Describe three different data types.

Ans: Basic three data types are 1. Integer 2. Boolean 3.string

1.Integer: there is no limit how long integer value can be.it contains numeric data.it is defined as int.

2.Boolean: Boolean type provides two built-in values, True and False. These values are used to determine the given statement true or false. It is defined as bool.

3.String: A string is a sequence of character.it is defined as str.

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

Ans: An expression is a combination of values, variables, operators, and calls to functions. Expressions need to be evaluated. If you ask Python to print an expression, the interpreter evaluates the expression and displays the result.

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

Ans: Expression is made up of values, containers, and mathematical operators (operands) and the statement is just like a command that a python interpreter executes like print.

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

bacon = 22

bacon + 1

Ans:23

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

'spam' + 'spamspam'

'spam' \* 3

Ans:spamspamspam

Both output will be the same

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

Ans: Because we can't start giving variable an integer name. if we, we should begin with, a string-like alphabet name then integer. e100 or eggs100 is valid.

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 99 is an integer it cannot be concatenated with strings, if we have to concatenate it we need to do typecasting.