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.

Ans :-   *   :- Expression
        hello :- Values
        -87.8 :- Values
        -     :- Expression
        /   :- Expression
        +   :- Expression
        6   :- Values

2. What is the difference between string and variable?

Ans :- A string is value enclosed with in a single quotes, double quotes, or triple quotes(For multi line strings) where as variables which holds the value or in which the variables are assigned

Ex:- x='Hello' or y=22 where x and y are variables and 'Hello' and 22 are values where 'Hello' is a string.

3. Describe three different data types.

Ans:- The three types of data types are :- String, Integer, Bool

String :- These are the data types which are enclosed in a single quote, double quote or triple quote.
Integer :- These are the numeric values which can be negative numbers or positive numbers or 0.
Boolean :- These are nothing but True or False i.e 0 and 1

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

Ans:- Expression are mathematical operator like + - * / etc. They are assigned with specific tasks like + is addition of two numbers of strings. - is for subtraction, * is used for multiplication and / is for division. In mathematical terms expression is like a+b where we have operators and operands at the same time.

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

Ans:- Expression must have at least two or more operators whereas = is an assignment operator so this is a statement instead of expression.

6. After running the following code, what does the variable bacon contain?
bacon = 22
bacon + 1

Ans:- bacon contains 23 after the code is executed

7. What should the values of the following two terms be?
'spam' + 'spamspam'
'spam' * 3

Ans :- The result is going to be same for both of them i.e. 'spamspamspam'

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

Ans:- This is the inbuilt of python that it allows a string to be a variable and int not to be also the reason maybe that a variable can be assigned with any value whereas a constant can be assigned as it already has a fixed value.

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

Ans:- int(x), str(x), float(x) to check the type we can do type(x) but string can't be converted to float or int as it shows value error.

10. Why does this expression cause an error? How can you fix it?
'I have eaten' + 99 + 'burritos.'

Ans:- string can't be concatenated with integer. To fix it we can remove the int part and write the code as **'I have eaten'+'burritos.'**