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?

Variable is the name which is assigned to any datatype and it could be anything eg int ,float ,string . String is a datatype

3. Describe three different data types.

Integer , Float , String

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

Expression is made up of operators and operands .The end goal is to come up with an output after performing the mentioned operations eg addition/subtraction etc.

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

The above is a statement ie spam=10 (You are saying that the value of spam is 10 ) . Expression would be when you will try to do something with this value eg say spam\*spam or spam+spam .

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

bacon = 22

bacon + 1

bacon remains 22

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?

Eggs is a string . 100 a number

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

Integer — int()  
Floating-point —float()  
String — str()

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

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

‘I have eaten 99 burritos’

Or convert 99 to string str(99)