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.

*

'hello'

-87.8

-

/

+

6

Answer- expressions/operators= *,-, /, +
values= hello, -87.8, 6

2. What is the difference between string and variable?

Answer-
A string is a literal text or sequence of characters., i.e. 'Hello'
A variable is something that stores data.It can store a string, int, float, etc.

3. Describe three different data types.

Answer-

- **Integers** – It is represented by int. It contains positive or negative whole numbers (without fraction or decimal).
- **Float** – It is represented by float. It is specified by a decimal point.
- **Complex Numbers** – Complex number is represented by complex class. For example – 5+2j

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

Answer-
Expression is made up of operators and values together. Expression evaluates to single value or meaning.

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

Expression evaluates to single value or meaning. But statement does not.

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

bacon = 22

bacon + 1

Answer-
bacon still contain 22 only. If bacon=bacon+1 is given, then its value will be changed.

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

'spam' + 'spamspam'

'spam' * 3

Answer-
both's answer= spamspamspam

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

Answer-
variable name can't begin with a number like 100.

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

Answer-
int(), float(), str()

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

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

Answer- It will show error because 99 is an int. if it is string, then all three would be summed up. And even if it written as str(99), then it can be added too.