- 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. \* - mathematical operators 'hello' - string -87.8 - **float** - - mathematical operators / - mathematical operators + - mathematical operators 6 - integer 2. What is the difference between string and variable? String - values inside the quote assigned to a string **Variable** - can store everything from strings to numbers 3. Describe three different data types.
- 1) Int It stores the integers values that can be positive or negative and do not contain any decimal point.
- 2) Float These are floating-point real numbers that store the decimal values. It consists of integer and fraction parts.
- 3) Complex These are complex numbers specified as a real part and an imaginary part
- 4. What is an expression made up of? What do all expressions do?

An expression is a combination of operators and operands that is interpreted to produce some other value

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

An Expression always evaluates to a value. And, A statement does something, like creating a variable or displaying a value, it only does whatever the statement says.

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

bacon = 22

bacon + 1

23

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

'spam' + 'spamspam'

'spam' \* 3

'spamspamspam'

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

eggs - can variable because it starts with character

100 - variable cannot start with a numeric value

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 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.'

Integer and string cannot concatenate, Convert int to str 'I have eaten ' + '99' + ' burritos.'