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

**Ans:**  **Expressions:** \*,-,/,+  
**Values:** 'hello', 87.8, 6

2. What is the difference between string and variable?

Ans: **A Variable is a store of information, and a String is a type of information we would store in a Variable**.

3. Describe three different data types.

**Ans:** Three fundamental Data types in python are int, float, complex.

1. **int data type**: We can use int data type to represent whole numbers (integral values)
2. **float data type**: We can use float data type to represent floating point values (decimal values)
3. **complex data type**: Complex number is represented by complex class. It is specified as (real part) + (imaginary part)j.
4. What is an expression made up of? What do all expressions do?

**Ans:** A sequence of operands and operators, like a + b - 5, is called an expression. If we 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:** 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

**Ans:** variable bacon will contain 22.

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

'spam'+'spamspam'  
'spam'\*3

**Ans:** spamspamspam

spamspamspam

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

**Ans**: Variable name cannot be a number therefore 100 is invalid variable name.

9. What three functions can be used to get the integer, floating-point number, or string

version of a value?

**Ans:** The int(),float(),and str() functions will evaluate to the integer,floating-point number,string version of the value passed to them.

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

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

**Ans:** The error is caused as 99 is not a string. 99 must be a string to fix this error:  
**Input:** 'I have eaten ' + ‘99’ + 'burritos.'  
**Output:** 'I have eaten 99 burritos.'