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: mathematical operators -- *,+,-,/
```

Values -i) 'hello' is string value

ii) -87.8 is a float value

iii) 6 is a integer value

2. What is the difference between string and variable?

**Answer:** String is just a type of variable. Python detects the type of variable automatically. A string is written between quotes . Variables are used to store values.

3. Describe three different data types.

**Answer:** The three data types introduced in this chapter are integers, floating-point numbers, and strings.

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

**Answers:** An expression is a combination of values and operators. All expressions turn down to a single value.

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

**Answers:** An "expression" is a combination of values and functions that are combined and interpreted by the compiler to create a new value, as opposed to a

"statement" which is just a standalone unit of execution and doesn't return anything.

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

bacon = 22

bacon + 1

Answers: bacon conatain 22. But if we assign a new statement like A=bacon + 1 then A = 23 we can get

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

'spam' + 'spamspam'

'spam' \* 3

**Answers:** Same outcome; outcome will be – 'spamspamspam'

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

**Answers:** Variable names cannot begin with a number.

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

**Answers:** Integers - int(), floating-point number - float(), string - str().

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

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

Answers: concatenation error will arise because 99 is an integer.

For fixing we can define 99 as str(99)

Correct way to write - 'I have eaten' + str(99) + 'burritos.'