

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.

Ans.)

*	Expression
'hello'	Value
-87.8	Value
-	Expression
/	Expression
+	Expression
6	Value

2. What is the difference between string and variable?

Ans.) Variable is something which stores data.

String is sequence of characters or a single character which can be stored in a variable.

3. Describe three different data types.

- ➡ String
- ➡ Integer
- ➡ Float

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

Ans.) Expression is made up of variables, operators or operands (on which we perform operations).

Expression represents a value.

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

Ans.) In assignment statement we are assigning value (10) to a variable spam. Expression is a representation of value, like spam represent a value of 10.

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

```
bacon = 22
```

```
bacon + 1
```

Ans.) The bacon will contain the value 23.

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

Ans.) 'spam' + 'spamspam' = spamspamspam

'spam' \* 3 = spamspamspam

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

Ans.) Because in python a variable should start with a letter or underscore, hence 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 3 functions are : int(), float(), str() respectively.

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

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

Ans.) The expression causes an error because here we are adding 2 strings with a integer value.

We can fix it by changing integer data type to string or vice versa; e.g. 'I have eaten ' + '99' + ' burritos.'