

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 to the Question Number 01		
*	Expression	
'hello'	Value	
-87.8	Value	
-	Expression	
/	Expression	
+	Expression	
6	Value	

2. What is the difference between string and variable?

Answer to the Question Number 02
A variable is something that holds value, while a string is one of many types of values

3. Describe three different data types.

Answer to the Question Number 03
<p>There are many kinds of data types available in the programming language. Among them, three different data types are written below:</p> <ol style="list-style-type: none">1. Integer: Integer is such kind of data which only consists numbers which are not discrete. The thing we need to notice that both positive and negative discrete values can be integer.2. String: String is actually a combination of numbers, letters and special characters. It basically represents the texts.3. Boolean: Boolean is also another kind of data type which only considers 0 and 1 or it may be said yes/no. It is also an important data type.

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

Answer to the Question Number 04
An expression is a combination of variables, operators and constants. All expressions may consist one or more operands, zero and one or more operators to produce a value.

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

Answer to the Question Number 05
The key difference between an expression and statement is the expression is value and while it can be used or assigned as an operand while statements can only be declared.

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

```
bacon = 22
```

```
bacon + 1
```

Answer to the Question Number 06
22

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

```
'spam' + 'spamspam'
```

```
'spam' * 3
```

Answer to the Question Number 07
"spamspamspam" "spamspamspam"

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

Answer to the Question Number 08
eggs is a valid variable name while 100 is invalid, because, a variable's name can not be started with a number while it is safe to start with letter.

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

Answer to the Question Number 09
To get integer int() is used, float() is used to get floating number and str() is used to get string version of a value.

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

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

Answer to the Question Number 10
<p>The only way the expression cause an error is 99. Here 99 is an integer. It is not possible to concatenate an integer with an string.</p> <p>So, the solution will be</p> <p>'I have eaten' + str(99) + 'burritos.'</p>