

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.

* -> Expression

'Hello' -> Values

-87.8 -> Values

- -> Expression

/ -> Expression

+ -> Expression

6 -> Values

2. What is the difference between string and variable?

A string is a value representing text . String is a collection of one or more characters

A variable is a name that can refer to any value . In variable we can assign a value

3. Describe three different data types.

1. Integers : Can hold integer values
2. Float: it will hold the float values
3. String : String is a collection of one or more characters
4. List : List will able to store same or different data types
5. Boolean : Able to store True / False

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

An expression is a combination of values, variables, operators. Expressions need to be evaluated.

Expression is a statement and which will be executed by the compiler

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

an expression evaluates to a value. A statement does something.

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

```
bacon = 22
```

```
bacon + 1
```

Answer is : **22**

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

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

```
'spam' * 3
```

Answer: spamspamspam

spamspamspam

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

Answer: Variable name should start with alphabets or _. Thats why 100 is an invalid

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

Answer: int(value), str(value), float(value)

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

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

Answer: Integer cannot be concatenated . to fix this we need to convert 99 to string

```
'I have eaten ' + str(99) + ' burritos.'
```

