

**Title : Python Basic Assignment\_1**

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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' - **Value**

-87.8 - **Value**

- - **Expression**

/ - **Expression**

+ - **Expression**

6 - **Value**

2. What is the difference between string and variable?

- **String is a data type which can have alphanumerical values**

- **Variable is identifier to store values**

3. Describe three different data types.

- **int**

-**float**

- **string**

- **list**

- **tuple**

-**bool**

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

- **An expression is a combination of values, variables, operators**

**- Expression are language specific and basically it calls certain function or perform certain specified task**

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

**- = is expression, which assigns value 10 to variable spam**

**- Statement is complete which indicate 10 is to be assigned to variable spam**

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

```
bacon = 22
```

```
bacon + 1
```

**- bacon=23**

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

```
'spam' + 'spamspam' - 'spamspamspam'
```

```
'spam' * 3 - 'spamspamspam'
```

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

**- 100 is integer value which can not be used as variable.**

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

**-int(10.5),float(10.5),str(10.5)**

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

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

-Correct statement: **'I have eaten ' + '99' + ' burritos.'**

**- Error because we are adding integer with string**