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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.

* - / +

2. What is the difference between string and variable?

Variable - it is used to store a data (data can be any type eg.num,float,complex,string,bool)

String - string is a data type which can be assigned to a variable, it is derived within inverted commas and anything can be written in it eg, num,complex,letters, space etc.. String cannot be used for mathematical operations even if has only numbers in it, it should be converted into data type (int)

3. Describe three different data types.

Int- 10 (only number)

Float- 10.7

Bool - True or False

String - 'bharath'

Complex - 10 + 10a

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

Expression is made of mathematical operations, it simply does mathematical operations which are provided in it.

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

Expression is something which contains mathematical operations like (+,-,/,%), expression usually gives new value after performing a particular mathematical operation.

Statement is something that executes an action.

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

```
bacon = 22
```

```
bacon + 1
```

23

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

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

```
'spam' * 3
```

```
'Spamspamspam'
```

```
'spamspamspam'
```

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

100 is data type of int, only string data type is used for variable declarations

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

int()

float()

str()

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

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

The datatype of 99 does not match other two values in the expression, 99 is a int data type where other two is string data type.

Type conversation from int to string will work.

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