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Assignment 1

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.

\* 🡪 Mathematical Operator

'hello' 🡪 String

-87.8 🡪 Integer

- 🡪 Mathematical Operator

/ 🡪 Mathematical Operator

* 🡪 Mathematical Operator

6 🡪 Integer

2. What is the difference between string and variable?

Ans: **String**:

* String is a collection of characters.
* We can store String into variable.

**Variable:**

* Variable is empty storage where we can store values or information in particular location in computer’s memory.
* Variable can be of any type either integer, string, Boolean etc.

3. Describe three different data types.

Ans: Three Diiferent Data Type are followed:

1. **Integer** **-** Integer data type only store integer values, eg: **2, 34, 678, -45**.
2. **String –** String data type stores String as well as Character values only, eg;

**‘Mohit’, ’Y’, ’iNeuron’**.

1. **Boolean –** Boolean data type store only two type of values i.e. **TRUE** and **FALSE.**
2. What is an expression made up of? What do all expressions do?

Ans:

* Expression is made up of Operand and Operator and give one set of result.
* Expression is work as per precedence of an operator.
* Example: **34(3\*(4+6)-(6/2))**
* In the above expression 34, 3, 4, 6, 2 is an Operand and (), \*, -, +, / is an operator.

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

Ans: **Expression** is just a combination of operand and operator and give a single result, it can be any mathematical expression while **Statement** is each line of code which interpreter is going to execute whether it is any expression or any set of logical code etc.

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

bacon = 22

bacon + 1

Ans: bacon contain 22 i.e. **bacon=22** because in 2nd line bacon + 1 is not assign to bacon variable so that bacon still have previous value i.e. 22.

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

'spam' + 'spamspam'

'spam' \* 3

Ans: Both Expression will going to return same value i.e. ‘**spamspamspam**’

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

Ans: eggs a valid variable name while 100 is invalid because according to naming convention variable name should be follow some set of rules and one of the rule among them is variable name should not start with integer.

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

Ans: int() , float() and str () function is be used to get the integer, floating-point number, or string version of a value.

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

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

Ans: This above expression cause an error because we can’t concatenate or merge integer along with string.

We fix that expression by doing this : **'I have eaten ' + ‘99’ + ' burritos.’**