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CS114 Logical Thought & Programming

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***Practice Questions for lessen 1***

**1. Which of the following are operators, and which are values?**

**( \* )** = Operator

**( 'hello' )** = value

**( -88.8 )** = value

**( - )** = operator

**( / )** =operater

**( + )**  =operater

**( 5 )** = value

**2. Which of the following is a variable, and which is a string?**

Spam <= variable

'spam' <= string

**3. Name three data types.**

Strings, Integer, and Floating-points

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

An expression is made up of one or more operators and values. They are put together to make code i.e. strings integers and floats and are al evaluated or reduced to a single value

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

The difference between an expression and a statement is that an expression is reduced to a single value and a statement is not.

**6. What does the variable bacon contain after the following code runs?**

**bacon = 20**

**bacon + 1**

well bacon wouldn’t contain anything because when you do bacon = 20 the string bacon now is the number 20. So basically the expression (bacon + 1) is equal to (20 +1)

**7. What should the following two expressions evaluate to?**

**'spam' + 'spamspam'**

**'spam' \* 3**

You should end up with the string ‘spamspamspam’

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

Because variables cannot start with a number

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

The abbreviation of the functions are int(), float(), and str()

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

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

The expression gets the error because you need to convert the 99 to a string because you can only create expressions with like expressions. So it would read:

print (‘I have eaten ‘ + str(99) + ‘burritos.’)