# IVY TECH COMMUNITY COLLEGE <br> CINS 113 / Computing Logic <br> S11 Homework Assignment (30 points) 

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INTRODUCTION: In this assignment, you will write statements and definitions from the assigned readings in Books 24x7:

- Beginning Programming, All-in-One Reference for Dummies: Chapter 2 in Book II (Variables, Data Types and Constants)
- Beginning Programming, All-in-One Reference for Dummies: Chapter 1 in Book III (Structures and Arrays)
- Software Testing: A Craftsman's Approach: Chapter 3 (Discrete Math for Testers)

ASSIGNMENT: Answer the following questions by typing your answers into the space after each question. When you are finished, save the file and submit this document through Blackboard.

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#1. Write a statement that assigns the value 3 to a variable named
YearsOfService. (2 points)
    YearsOfService = 3
#2. Write a series of three statements that assign the value 40 to the
variable HoursWorked, the value 17.50 to the variable HourlyWage, and a
statement that multiplies them together and stores the result in the
variable GrossPay. (6 points)
    HoursWorked = 40
    HourlyWage = 17.50
    GrossPay = HoursWorked * HourlyWage
#3. Write a single statement that prints the label "Your score is: "
followed by a variable named Score1. (4 points)
    Print "Your score is:", Score1
#4. Write two statements. The first assigns the value 1200 to the
variable Sales. The second calculates the value of 10% times Sales and
assigns that value to a variable called Bonus. (4 points)
Sales = 1200
    Bonus = Sales * . }1
```

\#5. Write the definition of a structure named Book that includes the variables Title, Author and NumberOfPages, using the data types String and Integer as appropriate. (4 points)

Structure Book
Dim Title as String
Dim Author as String
Dim NumberOfPages as Integer
End Structure
\#6. Write a single statement that assigns the values 99, 100 and 88 to an integer array named TestScores. Use the C++ notation used for the "lotterynumbers" array. (4 points)

```
int TestScores[] = {99, 100, 88};
```

\#7. Write three statements about sets. The first defines set A with values 1, 2, 3, 4 and 5 . The second defines set $B$ with the values 2, 4, 6,8 and 10. The third lists the union of sets A and B. (Use the uppercase letter $U$ to signify union.) (6 points)
$\mathrm{A}=\{1,2,3,4,5\}$
$B=\{2,4,6,8,10\}$
A U B $=\{1,2,3,4,5,6,8,10\}$

