

Unit 1 Lab 12 - final

class hour _____

Pts: 10

Name _____

I. Overwriting

0) a) Open **P1ch1lab12.java**

b) Run the program

c) Write the exact output below

1) a) How many declaration statements are there? _____

b) How many assignment statements are there? _____

c) What statement is automatically imported (see Lab 10) _____

d) Change the line **int x;** to **final int x;**

e) Run the program. Did the output change? Yes / No _____

f) After the line `x = 7;` add the line `x = 10;`

g) Run then write what happens

h) Change the line **final int x;** back to **int x;**

i) Run the program

j) Write the exact output below

(Recall: This is an example of overwriting)

k) Change the program so that the only 2 lines in the main() block are:

final int x= 7;

`System.out.println("x = " + x);`

l) Run the program (there should be no error)

m) After the statement `System.out.println("x = " + x);` add the statement `x = 10;`

n) Run then write what happens

Summary

Once a value is stored in a **final** variable the value can never be changed later in the program to a different value. It is called a *constant* value.

2) Explain how to create a constant variable

Turn in this sheet to be graded!