**CITC1310          Lab assignment from chapter2 (Assignment 2\_B, and 2\_C)**

**Lab assignment 2\_B: 15 points**

Consider the following Java program in which the statements are in the incorrect order (there are also several **syntax errors** in the program as well). **Correct and rearrange** the statements so that it prompts the user to input the length and the width of a rectangle and output the area and perimeter of the rectangle.

Public class Ch2\_Exercise {

Static Scanner console = new Scanner (System.in);

import java.util.\*;

{

public static void main(String [] args);

int width;

System.out.print(“Enter the length: “);

length = console.nextint();

System.out.println();

int length;

System.out.print(“Enter the width: “);

width = console.next();

System.out.println();

length \* width = area;

System.out.println(“Area = “ + area);

System.out.println(“Perimeter = “ perimeter);

perimeter = 2 \* (length + width);

int area;

int perimeter;

} }

The **name** of the **file** should be **Rectangle** in the **lab2 package**.

**Lab Assignment 2\_C:**

**2C.** You found an exciting summer job for four weeks. Suppose that the total tax you pay on your summer job income is 14%. After paying the taxes, you spend 10% of your net income to buy new clothes and other accessories for the next school year and 1% to buy school supplies. After buying clothes and school supplies, you use 25% of the remaining money to buy saving bonds. For each dollar you spend to buy saving bonds, your parents spend $0.50 to buy additional savings bonds for you. Write a program that prompts the user to enter the pay rate for an hour and the total number of hours you worked (four weeks total hours). The program then outputs the followings:

1. Your income before and after taxes from your summer job
2. The money you spend on clothes and accessories
3. The money you spend on school supplies
4. The money you spend to buy savings bonds
5. The money your parents spend to buy additional saving bonds for you

Use *System.out.println ( )* to print outputs to the screen (standard output). Use a Scanner object to get inputs from the keyboard (standard input). Define values for tax, clothes, school supplies, saving bonds, and parent saving bonds as **constant**.

Use NetBeans to write your program. The package will be **lab2**.

You may use JOptionPane Dialog boxes for both input /output(**optional**).

Your **lab2** package should have three programs:

1. Error assignment(lab assignment 2\_A) with Scanner(10 points)- lab activity in a team
2. Assignment 2\_B (15 points)
3. Assignment 2\_C(20 points)

**Total points for all three parts 45 points.**

Each program will include source, algorithm (may be in form of comments). Your program must start with a general comment which should include your name as programmer, description of the program, and any other pertinent info (**package will be lab2**).You should have a minimum of three programs with lab2 package. You should submit your lab in a folder with your name and copy it to **N:\CITC\1310P01Java\HandIn**

**The due date for lab2 package programs: Tuesday September 26**