***HW 2 – Pseudo Code***

1. Create all variables
   1. string **firstName** – customer name
   2. string **itemDesc** – name of item
   3. float **itemPrice** – price of item
   4. float **amtTendered** – tendered amount
   5. float **dollarPrice** – price of item in dollars
   6. float **dollarTendered** – tendered amount in dollars
   7. float **amtLeft** – amount left after gradually changing into change
   8. const int **moneyDollar** – number of cents in a dollar, 100 cents
   9. const int **moneyQuarter** – number of cents in a quarter, 25 cents
   10. const int **moneyDime** – number of cents in a dime, 10 cents
   11. const int **moneyNickel** – number of cents in a nickel, 5 cents
2. Ask customer’s first name, store 🡺 **firstName**
3. Ask for item’s description, store 🡺 **itemDesc**
4. Generate a random number between 1 and 2000 for price of item, store 🡺 **itemPrice**
5. Print the item description **itemDesc** and the generated number **itemPrice**
6. Ask for amount tendered, store 🡺 **amtTendered**
   1. If **amtTendered** is less than **itemPrice**, prompt user to enter again
7. Convert price for books and amount into dollars
   1. Divide **itemPrice** by 100 to get dollars
   2. Store 🡺 **dollarPrice** for double decimal
   3. Divide **amtTendered** by 100 to get dollars
   4. Store 🡺 **dollarTendered** for double decimal
8. Print customer’s first name **firstName**, item’s description **itemDesc**, its price **dollarPrice** and amount tendered **dollarTendered**
9. Subtract **itemPrice** from **amtTendered**, store 🡺 **amtLeft**
10. Calculate how many one-dollar bills are in the change
    1. Divide **amtLeft** by **moneyDollar** to get number of one-dollar bills
       1. Print result
       2. If result == 1, print result “one-dollar bill”
       3. Else, print result “one-dollar bill**s”**
    2. Find remainder of **itemPrice** / **moneyDollar** with (%) and store 🡺 **amtLeft**
11. Calculate how many Quarters are in the change
    1. Divide **amtLeft** by **moneyQuarter** to get number of quarters
       1. Print result
       2. If result == 1, print result “quarter”
       3. Else, print result “quarter**s”**
    2. Find remainder of **amtLeft** / **moneyQuarter** with (%) and store 🡺 **amtLeft**
12. Calculate how many Dimes are in the change
    1. Divide **amtLeft** by **moneyDime** to get number of quarters
       1. Print result
       2. If result == 1, print result “dime”
       3. Else, print result “dime**s”**
    2. Find remainder of **amtLeft** / **moneyDime** with (%) and store 🡺 **amtLeft**
13. Calculate how many Nickels are in the change
    1. Divide **amtLeft** by **moneyNickel** to get number of quarters
       1. Print result
       2. If result == 1, print result “nickel”
       3. Else, print result “nickel**s”**
    2. Find remainder of **amtLeft** / **moneyNickel** with (%) and store 🡺 **amtLeft**
14. Print **amtLeft** as the remaining pennies
    1. If **amtLeft** == 1, print **amtLeft** “penny”
    2. Else, print **amtLeft** “pennies”