Algorithm Workbench ..writing pseudo code (Gaddis, CEO. Pg. 69)

21. Create detailed pseudo code for a program that calculates how many days are left until Christmas, when given as an input how many weeks are left until Christmas. Use variables named **weeks** and **days**.

```
Input weeks                // with prompt
days = weeks * 7
Display days
```

22. Create detailed pseudo code for a program that determines how many full 12-egg cartons of eggs a farmer can pack when given as an input the number of eggs he has collected on a given day. Use variables named **eggs** and **cartons**.

```
Input eggs          // with prompt
cartons = eggs / 12      // perform integer divide
Display cartons
```

23. Create detailed pseudo code for a program that determines distance traveled when given inputs of speed and time. Use variables named **speed**, **time**, and **distance**.

```
Input speed                // with prompt
Input time                 // with prompt
distance = speed * time
Display distance
```

24. Create detailed pseudo code for a program that determines miles per gallon a vehicle gets when given inputs of miles traveled and gallons of gas used. Use variables named **miles**, **gallons**, and **milesPerGallon**.

```
Input miles                // with prompt
Input gallons              // with prompt
milesPerGallon = miles / gallons
Display milesPerGallon
```

27. **Account Balance High Level Pseudo code**

```
Have user input starting balance
Have user input total deposits
Have user input total withdrawals
Calculate current balance
Display current balance
```

  Account Balance Detailed Pseudocode
```
Input startBalance              // with prompt
Input totalDeposits             // with prompt
Input totalWithdrawals          // with prompt
currentBalance = startBalance + totalDeposits - totalWithdrawals
Display currentBalance
```

28. **Sales Tax High Level Pseudo code**
```
Have user input retail price
Have user input sales tax rate
Calculate tax amount
Calculate sales total
Display tax amount and sales total
```

  Sales Tax Detailed Pseudo code
```
Input retailPrice                // with prompt
Input salesTaxRate               // with prompt
taxAmount = retailPrice * salesTaxRate
salesTotal = retailPrice + taxAmount
Display taxAmount, salesTotal
```