**Pseudocode Worksheet 1 Name -**

Trace the code printing the values of the variables in the columns below. Show the final output in the comments.

Fill in the C++ statements that match the corresponding lines of pseudocode to match the specs for Assignment #2.

**Pseudocode C++ code**

declare variables (numBooks, subtotalBooks, etc.) 1. List other variables here:

int numMovies;

int lbsPeanuts;

double totalBook;

double totalPeanut;

double totalMovie;

double subPeanut;

double subMovie;

double total;

declare constants (PRICE\_PER\_BOOK = 9, PRICE\_PER\_MOVIE = 13.97, BOOK\_SHIPPING = 0.95, etc.)

2. List other constants here:

const double PEANUT\_PRICE = 0.30;

const double PEANUT\_SHIPPING = 0.95;

const double MOVIE\_SHIPPING = 0.95;

ask the customer to input number of books cout << “Input number of books: ”;

customer inputs number of books cin >> numBooks;

ask the customer to input number of movies 3. cout << “enter number of movies: “;

customer inputs number of movies 4. cin >> num;

ask the customer to input lbs of peanuts 5. cout << “enter pounds of peanuts”;

customer inputs lbs of peanuts 6. cin >> lbsPeanuts;

multiply number of books \* price per book subtotalBooks = numBooks \* PRICE\_PER\_BOOK;

multiply number of books \* shipping cost per book 7. totalBook = subtotalBooks \* BOOK\_SHIPPING;

subtotal the two numbers above 8. totalBook += subtotalBooks;

multiply number of movies \* price per movie 9. subMovie = numMovies \* PRICE\_PER\_MOVIE;

multiply number of movies \* price per movie \* shipping cost per movie 10. totalMovie = subMovie \* MOVIE\_SHIPPING;

subtotal the two numbers above 11. totalMovie += subMovie;

multiply number of pounds of peanuts \* price per lb of peanuts 12. subPeanut = lbsPeanuts \* PEANUT\_PRICE;

multiply number of pounds of peanuts \* shipping cost per lb of peanuts 13. totalPeanut = subPeanut \* PEANUT\_SHIPPING;

subtotal the two numbers above 14. totalPeanut += subPeanut

add all three subtotals together 15. total = totalBook + totalMovie + totalPeanut;

round the grand total to the nearest dollar 16. total = int (total + 0.5);

display the rounded total price 17. cout << total;