1. Start
2. Using do-while loop to ask user to enter information until user entered “0 0 x”
3. Call **checkInput()** to validate the input and waiting for return value:
   1. Return 0 and display message “Thanks for shipping with Seneca!” if input value is “0 0 x”.
   2. Call **checkShipmentWeight()** to validate the weight of shipment, return 0 if passed or return -1 and display error message “Invalid weight (must be 1-1200 Kg.)”
   3. Call **checkShipmentVolume()** to validate the volume size of shipment, return 0 if passed or return -2 and display error message “Invalid size”
   4. Validate the map information, return -3 and display error message “Invalid destination” or convert the destination to col and row and return 1.
4. If **checkInput()** return value is 0?
   1. Go to step 7.
5. Call **addDelivery()** and waiting for return value if **checkInput()** return value is 1:
   1. Call **findBestRoute()** for each truck to find the best route to the destination
   2. Call **assignTruck()** to assign the truck for shipment delivery and waiting for the return value:
      1. Call **checkAvailableSpaces()** for each truck that has route to the destination.
      2. Return 10/11/12 based on which truck assigned and display message about assigned truck and the diversion if successfully assigned a truck for shipment delivery, **assignTruck()** may call **displayPercentageUsage()** to find which truck is lower spaces utilization for delivery if both trucks has same distance cost to the destination.
      3. Return -1 and display error message: “ship tomorrow”.
      4. Return -2 and display error message “Destination cannot be reached and not eligible point to divert from the route.” if **assignTruck()** returned value is -1 that means assigned a truck for shipment delivery is failed.
   3. Return 1 if successful assigned truck, return -1 if no truck available, return -2 if destination cannot be reached.
6. Go to step 2.
7. End