|  |  |  |
| --- | --- | --- |
| A) If weight <= 50.0 | Ask for distance | No output yet |
| A) If weight > 50.0 | Error: close | End program |
| B) If weight <= 50.0 && milesTraveled < 0.0 | Error: close | End program |
| B) If weight <= 50.0 && milesTraveled > 0.0 | Check for miles > 0 | No output yet |
| C) if weight <= 50.0 && milesTraveled > 0.0 && weight <= 10.0 | Proceed to calculation, subtract 2 from standard charge | No output yet |
| C) if weight <= 50.0 && milesTraveled > 0.0 && weight > 10.0 | Proceed to calculation | No output yet |
| If milesTraveled / 500 != int | Add 1, then use in shipping calculation | Output shipping calculation |
| If milesTraveled / 500 = int | Use in shipping calculation | Output shipping calculation |

/\*\* Global Courier Services Shipping Manifest Helper

\*

\* A program developed in COP-1000C for a pretend company to

\* determine the price of goods shipped based on weight

\* and travel distance.

\*

\* @author: sh0inx

\* @ver: 0.1

\* @date: 9/26/21

\*/

//import

#include <stdio.h>

#include <stdlib.h>

//main method

main() {

//initilize variables for later use

double weight;

double milesTraveled;

double shippingCharge;

//UI intro prompt

printf("GLOBAL COURIER SERVICES: SHIPPING MANIFEST\n");

printf("=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=\n");

printf("\nHello! I'm the shipping manifest helper!\n");

//ask for user input (weight)

printf("Please input the weight of the package that you would like to ship in lbs. (must not exceed 50 lbs.)\n");

scanf\_s("%lf", &weight);

//if weight is greater than 50lbs, alert user and close.

if(weight > 50.0) {

printf("Sorry, your package exceeds the 50lbs weight maximum. Goodbye!\n");

//end program

system("pause");

}

//if weight is less than or equal to 0, alert user and close.

if(weight <= 0.0) {

printf("Sorry, your packages must have a weight higher than 0lbs. Goodbye!\n");

//end program

system("pause");

}

if (weight > 0.0 && weight <= 50.0) {

//ask for user input (milesTraveled)

printf("Great! Now input the distance this package will be traveling in miles.\n");

scanf\_s("%lf", &milesTraveled);

//if milesTraveled is less than or equal to 0, alert user and close.

if(milesTraveled <= 0.0) {

printf("Sorry, this package has to travel more than 0 miles. Goodbye!\n");

//end program

system("pause");

}

if(milesTraveled > 0.0) {

//if weight is less than or equal to 10lbs, caluclate shipping price at reduced rate ($3.00)

if(weight <= 10.0) {

milesTraveled = milesTraveled / 500.0;

if (milesTraveled != (int)milesTraveled) {

milesTraveled = milesTraveled - (milesTraveled - (int)milesTraveled) + 1;

}

if (milesTraveled == (int)milesTraveled) {

milesTraveled = milesTraveled - (milesTraveled - (int)milesTraveled);

}

shippingCharge = milesTraveled \* 3.00;

printf("Your shipping price will be %lf.\n", shippingCharge);

//end program

system("pause");

}

//if weight is less than or equal to 50lbs, calculate shipping price ($5.00)

if(weight > 10.0 && weight <= 50.0) {

milesTraveled = milesTraveled / 500.0;

if (milesTraveled != (int)milesTraveled) {

milesTraveled = milesTraveled - (milesTraveled - (int)milesTraveled) + 1;

}

if (milesTraveled == (int)milesTraveled) {

milesTraveled = milesTraveled - (milesTraveled - (int)milesTraveled);

}

shippingCharge = milesTraveled \* 5.00;

printf("Your shipping price will be %lf.\n", shippingCharge);

//end program

system("pause");

}

}

}

}

TEST CASE 1:

Text

Description automatically generated

TEST CASE 2:

Text

Description automatically generated  
  
TEST CASE 3:

Text

Description automatically generated

TEST CASE 4:

Text

Description automatically generated

TEST CASE 5:

Text

Description automatically generated