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    COP 3223C

    Assignment 3

    January 31, 2023

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#include <stdio.h>

int main()

{

    float weight; // the user input of weight

    float rate;  // the rate per weight either 3 or 5

    float totalShipping; // the total cost of shipping

    int miles; // the user input of miles

    int mileInt; // integer division of the miles by 500

    int mileSeg; // modulous division of the miles by 500

    int mileRate; // mileInt + mileSeg

    int thousand; // if the distance of miles is greater than 1000

    // make the thousand = 0 first that way it has a starting value

    thousand = 0;

    // ask user to input their package weight

    printf("What is the weight of the package?: ");

    scanf("%f",&weight);

    // ask user to input the distance needed to travel

    printf("What is the miles the package need to travel?: ");

    scanf("%d", &miles);

    // the if-else statements and calculations

    if(weight <= 10)

    {

        rate = 3.00;

        printf("Weight:\t%0.1f\n", weight);

        printf("Miles:\t%d\n", miles);

    }

    else if (10 < weight && weight <= 50)

    {

        rate = 5.00;

        printf("Weight:\t%0.1f\n", weight);

        printf("Miles:\t%d\n", miles);

    }

    else if (weight > 50)

    {

        printf("Sorry, we only ship packages of 50 pounds or less.\n");

    }

    // if statement for the miles

    if (miles >= 1000)

    {

        thousand += 10;

    }

    // if statement for the mile segments

    if (miles > 500)

    {

        mileInt = miles / 500;

        mileSeg = miles % 500;

        if (mileSeg > 0)

        mileRate = mileInt + 1;

        else if (mileSeg == 0)

        mileRate = mileInt + 0;

        totalShipping = (rate \* mileRate) + thousand;

    }

    else

    {

        totalShipping = rate + thousand;

    }

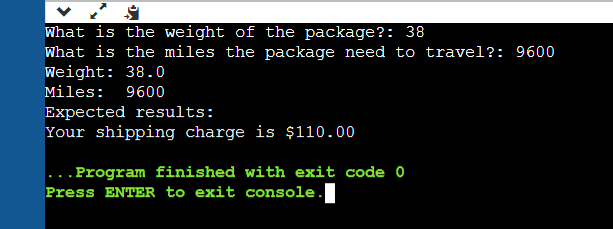
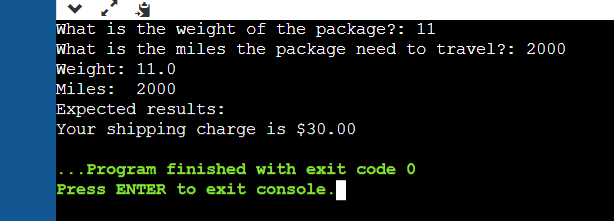
    printf("Expected results:\n");

    printf("Your shipping charge is $%0.2lf",totalShipping);

}

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