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\* Lab #1 Section #2

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***EXERCISE 1***

#include <iostream>

#include <iomanip>

using namespace std;

const float POUNDS = 52.2;

int main()

{

float weightInKg;

cout << "Enter the weight of person(KG): ";

cin >> weightInKg;

cout << fixed << showpoint;

cout << setprecision(2);

cout << "Your weight in kilogram is: " << weightInKg << endl;

cout << "Your weight in pound is: " << weightInKg\*POUNDS;

return 0;

}

***EXERCISE 2***

#include <iostream>

using namespace std;

const float WIDTH = 1.5;

int main()

{

float length;

cout <<"Input the length of the wire: ";

cin >> length;

cout << "The length of wire: " << length << endl;

cout << "The width of wire: " << length/WIDTH;

return 0;

}

***EXERCISE 3***

#include <iostream>

#include <math.h>

#include <iomanip>

using namespace std;

int main()

{

double x,y, elapse\_time, total\_distance\_A, total\_distance\_B, shrt\_distnc;

int elapse\_time\_hr, elapse\_time\_min;

cout << "Enter the average speed of car A: ";

cin >> x;

cout << "Enter the average speed of car B: ";

cin >> y;

cout << "Enter the elapse time(in hours & minutes) seperated by SPACE: ";

cin >> elapse\_time\_hr >> elapse\_time\_min ;

elapse\_time = (elapse\_time\_min/60.0) + elapse\_time\_hr;

total\_distance\_A = x\*elapse\_time;

total\_distance\_B = y\*elapse\_time;

shrt\_distnc = sqrt((total\_distance\_A + total\_distance\_A) + (total\_distance\_B + total\_distance\_B));

cout << "The average speed of car A: " << x << " miles per hour" <<endl;

cout << "The average speed of car B: " << y << " miles per hour" <<endl;

cout << "The elapse time: " << elapse\_time << " hours"<<endl;

cout << "The shortest distance between the cars: " << shrt\_distnc << " miles";

return 0;

}