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COSC 111.001

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10/18/15

Assignment 3

7. Code:

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

double seconds, minutes, hours, days;

cout << "How many seconds have elapsed?" << endl;

cin >> seconds; //enter numerically

if (seconds < 60)

{

cout << fixed << showpoint << setprecision(2) << seconds << " seconds have passed." << endl;

}

else if (seconds < 3600)

{

minutes = seconds / 60;

cout << fixed << showpoint << setprecision(2) << minutes << " minutes have passed." << endl;

}

else if (seconds < 86400)

{

hours = seconds / 3600;

cout << fixed << showpoint << setprecision(2) << hours << " hours have passed." << endl;

}

else

{

days = seconds / 86400;

cout << fixed << showpoint << setprecision(2) << days << " days have passed." << endl;

}

return 0;

}

Result:

How many seconds have elapsed?

30

30.00 seconds have passed.

Press any key to continue . . .

How many seconds have elapsed?

354

5.90 minutes have passed.

Press any key to continue . . .

How many seconds have elapsed?

4000

1.11 hours have passed.

Press any key to continue . . .

How many seconds have elapsed?

200000

2.31 days have passed.

Press any key to continue . . .

11. Code:

#include <iostream>

#include <cstdlib>

#include <ctime>

using namespace std;

int main()

{

const int MIN\_VALUE = 1;

const int MAX\_VALUE = 1000;

int rn1, rn2, answer, real\_answer;

unsigned seed = time(0);

srand(static\_cast<unsigned int>(time(0)));

rn1 = (rand() % (MAX\_VALUE - MIN\_VALUE + 1)) + MIN\_VALUE;

rn2 = (rand() % (MAX\_VALUE - MIN\_VALUE + 1)) + MIN\_VALUE;

cout << "Find the SUM of the two values.\n";

cout << rn1 << " + " << rn2 << endl;

cin >> answer;

real\_answer = rn1 + rn2;

if (answer == real\_answer)

{

cout << "congrats! You got it!" << endl;

}

else

{

cout << "sorry, the answer was " << real\_answer << endl;

}

return 0;

}

Result:

Find the SUM of the two values.

670 + 887

1557

congrats! You got it!

Press any key to continue . . .

Find the SUM of the two values.

333 + 357

990

sorry, the answer was 690

Press any key to continue . . .