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2/15/2021

## Homework 1 Report

[p1]

First, I initialized the variables as doubles. Then I had user input to declare the train fare, the distance in miles, and the car mileage. I used a formula to find the cost of driving to compare that to the train fare and used an if then statement to output the cheapest form of travel.

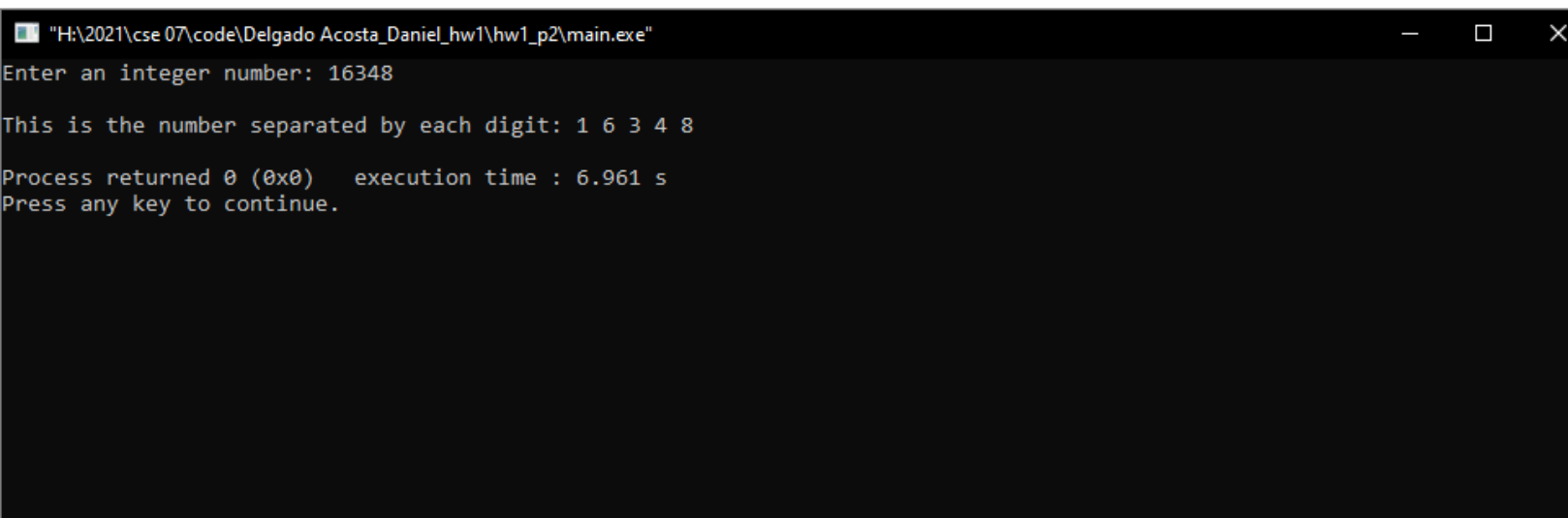
```
"H:\2021\cse 07\code\Delgado Acosta_Daniel_hw1\hw1_p1\main.exe"
Enter the cost of a train ticket: 15.99
Enter the distance in miles between home and work: 12.96
Enter the miles per gallon of your car: 22

The train fare is 15.99
The cost of driving is 3.00
It is cheaper to drive to work.

Process returned 0 (0x0) execution time : 28.072 s
Press any key to continue.
```

[p2]

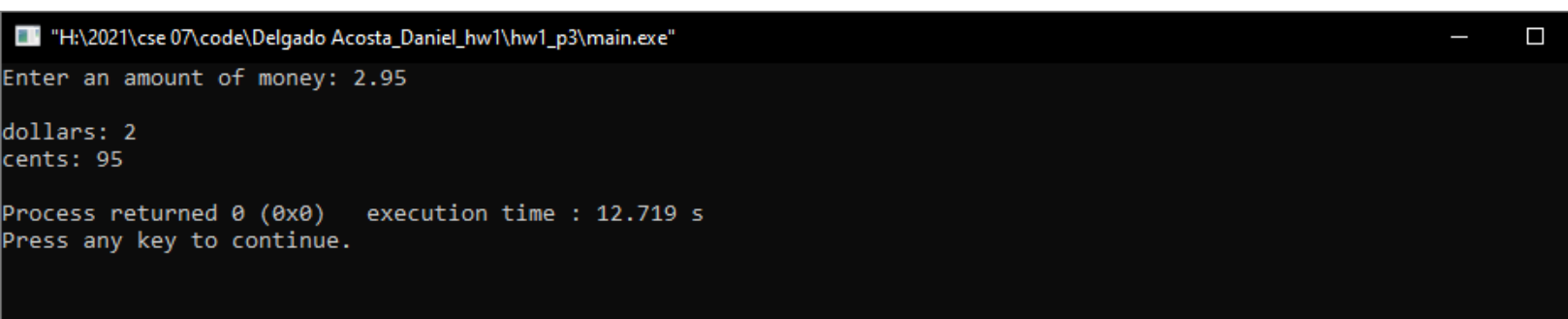
I initialized variables as integers and had user input for an integer number. I then used the mod function to get each digit of the user input integer number declared for by different integer variables in order. Last, I displayed each digit separated by a space.



```
"H:\2021\cse 07\code\Delgado Acosta_Daniel_hw1\hw1_p2\main.exe"
Enter an integer number: 16348
This is the number separated by each digit: 1 6 3 4 8
Process returned 0 (0x0)   execution time : 6.961 s
Press any key to continue.
```

[p3]

I initialized the user input for money as a double and the dollars and cents as integers. Then I had user input an amount of money. I made the dollars int equal to the money int and the cents int equal to a formula that would only give the cents. Last, I displayed the dollars and cents separately.



```
"H:\2021\cse 07\code\Delgado Acosta_Daniel_hw1\hw1_p3\main.exe"
Enter an amount of money: 2.95
dollars: 2
cents: 95
Process returned 0 (0x0)   execution time : 12.719 s
Press any key to continue.
```