

My Reflection in Programming Logic and Design (CPE007)

Lawrence C. Tobias

CPEIIISI

Ever since I was a kid, I dreamed of becoming a Computer Engineering student. I imagined myself creating programs and solving problems with code, but when the semester started, reality was really hard. CPE007 was very overwhelming because I had no experience in coding. I struggled a lot at first and even gave up on my Prelims skill exam and did not finish it. I told myself I needed to do better in my Midterms, so I worked hard and tried my best. My professor even congratulated me for not giving up on my Midterm skill exam.

At first, I felt completely lost in class. I did not understand most of the lessons and every task seemed too hard. During the Midterms, I was nervous but focused, and I tried my best to apply everything I had learned. I made mistakes, but I learned from them and improved. By the time the Finals came, I felt more confident and prepared. I worked hard on every assignment and exam, and even when it was stressful, I was proud of how far I had come. I realized that I could handle challenges if I stayed patient and kept trying.

The first time we were in class and given a task, I struggled and was very nervous. Sometimes I could not get the code to work and wanted to give up. But later, I realized that I would not learn anything if I did not try and struggle. The course that I was nervous to attend became the one I actually enjoyed. I learned a lot from printing out a simple text like "Hello world!" to making a system with structures and loops. I learned so much with the help of our professor and hands-on activities.

I remember including flowcharts and pseudocode in our outputs. At first, I did not know how to make good ones. Even though it was hard, I slowly got better and did well in our Midterms and Finals. Our first programming assignments were not very good, but this made me realize that even if someone has no experience, they can still learn and do well, just like I did.

The hardest topic for me was loops, but the topic I enjoyed the most was structures. Later in the semester, it became harder because I got stressed with school and other things. There were many moments that made me feel like giving up. But I pushed through and finished the course, and I can honestly say I really learned a lot from CPE007.



Programiz
C++ Online Compiler

```
main.cpp
```

```
1 #include<iostream>
2
3 int main()
4
5 {
6
7     float startValue = 100;
8
9     float interestRate = 0.015;
10
11    float firstYearValue;
12
13    float secondYearValue;
14
15    float thirdYearValue;
16
17    firstYearValue = startValue * (1 + interestRate);
18    secondYearValue = firstYearValue * (1 + interestRate);
19    thirdYearValue = secondYearValue * (1 + interestRate);
20
21    std::cout<<"After first year: "<<firstYearValue << std::endl;
22    std::cout<<"After second year: "<<secondYearValue << std::endl;
23    std::cout<<"After third year: "<<thirdYearValue << std::endl;
24 }
```

Run

Output

```
After first year: 101.5
After second year: 103.022
After third year: 104.568

*** Code Execution Successful ***
```

My first code:

My Recent code:

```
C:\Dev-Cpp\BY THAT.exe x + v
Celsius to Fahrenheit:
C   F   C   F   C   F   C   F   C   F   C   F   C   F   C   F   C   F   C   F   C   F   C   F
  0  32   1  34   2  36   3  37   4  39   5  41   6  43   7  45   8  46   9  48
 10  50   11  52   12  54   13  55   14  57   15  59   16  61   17  63   18  64   19  66
 20  68   21  70   22  72   23  73   24  75   25  77   26  79   27  81   28  82   29  84
 30  86   31  88   32  90   33  91   34  93   35  95   36  97   37  99   38  100  39  102
 40 104   41 106   42 108   43 109   44 111   45 113   46 115   47 117   48 118   49 120
 50 122   51 124   52 126   53 127   54 129   55 131   56 133   57 135   58 136   59 138
 60 140   61 142   62 144   63 145   64 147   65 149   66 151   67 153   68 154   69 156
 70 158   71 160   72 162   73 163   74 165   75 167   76 169   77 171   78 172   79 174
 80 176   81 178   82 180   83 181   84 183   85 185   86 187   87 189   88 190   89 192
 90 194   91 196   92 198   93 199   94 201   95 203   96 205   97 207   98 208   99 210
100 212

Fahrenheit to Celsius:
F   C   F   C   F   C   F   C   F   C   F   C   F   C   F   C   F   C   F   C   F   C   F   C
 32  0  33   1  34   2  35   3  36   2  37   3  38   3  39   4  40   4  41   5
 42  6  43   7  44   8  45   7  46   8  47   8  48   9  49   9  50   10  51  11
 52 11  53   12  54   13  55   14  56   13  57   14  58   14  59   15  60   16  61  17
 62 17  63   18  64   19  65   18  66   19  67   19  68   20  69   21  70   22  71  23
 72 22  73   23  74   23  75   24  76   24  77   25  78   26  79   26  80   27  81  28
 82 28  83   28  84   29  85   29  86   30  87   31  88   31  89   32  90   32  91  33
 92 33  93   34  94   34  95   35  96   36  97   36  98   37  99   37  100  38  101  39
102 39 103   39 104   40 105   41 106   41 107   42 108   42 109   43 110   43 111  44
112 44 113   45 114   46 115   46 116   47 117   47 118   48 119   48 120   49 121  49
122 50 123   51 124   51 125   52 126   52 127   53 128   53 129   54 130   54 131  55
132 56 133   56 134   57 135   57 136   58 137   58 138   59 139   59 140   60 141  61
142 61 143   62 144   62 145   63 146   63 147   64 148   64 149   65 150   66 151  66
152 67 153   67 154   68 155   68 156   69 157   69 158   70 159   71 160   71 161  72
162 72 163   73 164   73 165   74 166   74 167   75 168   76 169   76 170   77 171  77
172 78 173   78 174   79 175   79 176   80 177   81 178   81 179   82 180   82 181  83
182 83 183   84 184   84 185   86 186   86 187   86 188   87 189   87 190   88 191  88
192 89 193   89 194   90 195   91 196   91 197   92 198   92 199   93 200   93 201  94
202 94 203   95 204   96 205   96 206   97 207   97 208   98 209   98 210   99 211  99
212 100

Process exited after 0.345 seconds with return value 0
Press any key to continue . . . |
```