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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **An Introduction To Programming Through C++**
(course)

Announcements (announcements)

About the Course (https://swayam.gov.in/nd1_noc20_cs53/preview) Ask a Question (forum)

Progress (student/home) Mentor (student/mentor)

Week 2 Programming Assignments 1

Due on 2020-02-12, 23:59 IST

Write a program to calculate the total cost from shopping for n commodities. The input consists of an integer n, followed by n pairs of doubles. In each pair, the first number is the quantity bought of the commodity, and the second the rate per unit for the commodity. The amount to be paid for each commodity is the product of the quantity and the rate; the program must print the total over all commodities. For example if the input is 3 2 30 3 10 5 60, the expected answer is $2*30 + 3*10 + 5*60 = 390$.

Sample Test Cases

| | Input | Output |
|-------------|------------------|--------|
| Test Case 1 | 2 2 30 3 10 | 90 |
| Test Case 2 | 3 2 30 3 10 5 60 | 390 |

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```

1 #include <iostream>
2 #define repeat(x) for(int _iterator_i = 0, _iterator_limit = x; _iterator_i < _iterator_limit; ++_iterator_i)
3 #define main_program int main()
4 #include <cmath>
5 using namespace std;
6 main_program{
7     int n; cin >> n;
8     double total=0;
9     repeat(n){
10         double qty,rate; cin >> qty >> rate;
11         total = total + qty*rate;
12     }
13     cout << total << endl;
14 }
```

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

- ☒ Lecture 3 Part 1 : Basic Elements of Program (unit? unit=27&lesson=37)
- ☐ Lecture 3 Part 2 : Basic Elements of Program (unit? unit=27&lesson=38)
- ☐ Lecture 3 Part 3 : Basic Elements of Program (unit? unit=27&lesson=39)

- Lecture 3 Part 4 : Basic Elements of Program (unit?unit=27&lesson=40)
- Lecture 4 Part 1 : Program Design (unit?unit=27&lesson=42)
- Lecture 4 Part 2 : Program Design (unit?unit=27&lesson=41)
- Lecture 4 Part 3 : Program Design (unit?unit=27&lesson=43)
- Lecture 5 : Simple cpp Graphics (unit?unit=27&lesson=44)
- Quiz : Week 2 - Assignment 2 (assessment?name=166)
- **Week 2 Programming Assignments 1**
(/noc20_cs53/progassignment?name=168)
- Week 2 Programming Assignment 2
(/noc20_cs53/progassignment?name=169)
- Download Videos (unit?unit=27&lesson=178)
- Weekly Feedback (unit?unit=27&lesson=190)

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Text Transcripts