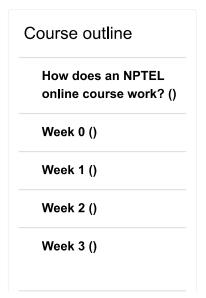
navnathdeshmukh363@gmail.com >

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## W10\_Programming\_Qs-2

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Programming in Modern C++ (course)

Due on 2023-04-06, 23:59 IST

Consider the following program (in C++11). Fill in the blanks as per the instructions given below:

- Fill in the blanks at LINE-1 and LINE-2 with appropriate headers for the definition of function getValue() belongs to class Gram and class KiloGram.
- Fill in the blank at LINE-3 with appropriate template definition.
- Fill in the blank at LINE-4 with appropriate header for function convert weight.

## Your last recorded submission was on 2023-04-04, 20:56 IST

Select the Language for this assignment. C++ ✓

```
1 #include <iostream>
2
3 class KiloGram;
4 class Gram{
5 public:
```



```
Week 4 ()
  Week 5 ()
 Week 6 ()
  Week 7 ()
  Week 8 ()
 Week 9 ()
  Week 10 ()
Lecture 46 : C++11 and
  beyond: General
  Features: Part 1 (unit?
  unit=112&lesson=113)
Lecture 47 : C++11 and
  beyond: General
  Features: Part 2 (unit?
  unit=112&lesson=114)
Lecture 48 : C++11 and
  beyond: General
  Features: Part 3 (unit?
  unit=112&lesson=115)
Lecture 49 : C++11 and
  beyond: General
  Features: Part 4: Rvalue
  and Move/1 (unit?
  unit=112&lesson=116)
Lecture 50 : C++11 and
  beyond: General
```

```
6
            Gram(double w) : w_(w) { }
 7
            KiloGram getValue();
            void print(){ std::cout << w_ << "G "; }</pre>
 8
 9
       private:
            double w ;
10
11 };
12
13 class KiloGram{
14
       public:
15
            KiloGram(double w) : w (w) { }
16
            Gram getValue();
            void print(){ std::cout << w << "KG "; }</pre>
17
18
       private:
19
            double w ;
20 };
21 KiloGram Gram::getValue() {
     return KiloGram(w / 1000); }
                                         //LINE-1
23
24 Gram KiloGram::getValue() {
25  return Gram(w_ * 1000); }
                                         //LINE-2
26
27 KiloGram convert weight(Gram w){
28
     return w.getValue();//LINE-3
29 }
        //LINE-4
30 Gram convert_weight(KiloGram w){
31
       return w.getValue();
32 }
 0 int main(){
       double a, b;
       std::cin >> a >> b;
       Gram o1(a);
       KiloGram o2(b);
       convert weight(o1).print();
       convert weight(o2).print();
       return 0;
```



Features: Part 5: Rvalue and Move/2 (unit? unit=112&lesson=117)

- Tutorial 10 : How to optimize C++11 programs using Rvalue and Move Semantics? (unit? unit=112&lesson=118)
- Week 10 Lecture Material (unit? unit=112&lesson=119)
- Quiz: Week 10 : Assignment 10 (assessment?name=208)
- W10\_Programming\_Qs-1 (/noc23\_cs50/progassignment? name=209)
- W10\_Programming\_Qs-2 (/noc23\_cs50/progassignment? name=210)
- W10\_Programming\_Qs-3 (/noc23\_cs50/progassignment? name=211)
- Week 10 Feedback Form (unit? unit=112&lesson=120)

Week 11 ()

Download Videos ()

8 }

**Test Case 1** 

You may submit any number of times before the due date. The final submission will be considered for grading.

This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program, your assignment will not be graded and you will not see your score after the deadline.

	Save as <u>D</u> raft	<u>C</u> ompile & Run	<u>S</u> ubmit	<u>R</u> eset
Private Test cases used for Evaluation		Statı	IS	

Passed



Books ()

Transcripts ()

Problem Solving
Session ()

