

Experiment Number

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Branch :: CSE - IoT
Semester :: 5th
Subject :: Adv Programming Lab

UID :: 19BCS4525
Sec/Grp :: 1/A
Date :: 18th Aug, 2021
CODE :: CSP-347

1. Aim :

Implement a class template Gradebook with two nontype template parameters that represent the number of students and the number of tests . Test multiple instances of the GradeBook class template with different numbers of students and exams.

2. Task :

Make a template class to compute two take parameters. And then, test it with different datatypes.

3. Algorithm :

1. Make a template class
2. Test function with different data types

4. Steps / Source Code :

```
#include <bits/stdc++.h>

template <class T>
class Gradebook
{
public:
    T a, b;

    Gradebook(T x, T y)
    {
        a = x;
        b = y;
    }

    void print()
    {
        std::cout << a << "\t| " << b << std::endl;
    }
};

int main()
{
    Gradebook<int> rishabh(3, 50);
    Gradebook<float> anand(7, 55.6);
    rishabh.print();
    anand.print();
    return 0;
}
```

5. Observations :

Following code executes without any error and code duplication.

6. Result :



Learning Outcomes :

- C++ templates
- STL library

S. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			