

**Object Oriented Programming using C++**

#### SCHOOL OF COMPUTER ENGINEERING AND TECHNOLOGY

**S. Y. B. TECH. COMPUTER SCIENCE AND ENGINEERING**

## Assignment 7

Implementation of template in C++

# Laboratory Assignment No: 7

Problem Statement

Develop an object-oriented program in C++ to Perform bubble sort operation using the template for integer and float data type

# Points related to Problem Statement

##### template <class T>

template <class T> class className {

public: T var;

T someOperation(T arg);

};

class Calculator {

##### private: T num1, num2; public: Calculator(T n1, T n2) { num1=n1;

num2=n2;

##### }

void displayResult() {

##### cout<<num1<<“\t”<<num2;

Syntax – Class Template

Example Class Template

}

##### };

int main() {

##### Calculator<int> Calc(2, 1); Calc.displayResult();

}



### Learning Resources

**Text books**

* 1. Robert Lafore, ‘Object-Oriented Programming in C++’, Fourth Edition, Sams Publishing, ISBN: 0672323087, ISBN- 13: 978-8131722824
  2. Deitel, “C++ How to Program”, 10th Edition, Pearson Education, ISBN 13: 9780134448237

**Reference Books**

1. Herbert Schildt, ‘C++ The Complete Reference’, Eighth Edition, McGraw Hill Professional, 2011, ISBN-13: 978- 0072226805
2. Bjarne Stroustrup, ‘The C++ Programming language’, Seventh Edition, Pearson Education. ISBN: 9788131705216
3. K. R. Venugopal, Rajkumar Buyya, T. Ravishankar, ‘Mastering C++’, Tata McGraw-Hill, ISBN 13: 9780074634547
4. E. Balaguruswamy, “Object-Oriented Programming with C++”, 7th edition, Graw-Hill Publication, ISBN 10:9352607996 ISBN 13:9789352607990



### Learning Resources

**Web Resources:**

* 1. https:[//ww](http://www.springer.com/gp/book/9781852334505)w.[springer.com/gp/book/9781852334505](http://www.springer.com/gp/book/9781852334505)
  2. https://[www.ebookphp.com/object-oriented-programming-in-c-epub-pdf/](http://www.ebookphp.com/object-oriented-programming-in-c-epub-pdf/)
  3. https:[//ww](http://www.springer.com/gp/book/9781447133780)w.[springer.com/gp/book/9781447133780](http://www.springer.com/gp/book/9781447133780)

**MOOCs:**

1. https://[www.coursera.org/learn/c-plus-plus-a](http://www.coursera.org/learn/c-plus-plus-a)

2. https://nptel.ac.in/courses/106/105/106105151/



Thank You!