Everest Engineering College
Sanepa-2, Lalitpur

Subject: Object Oriented Programming in C++

Lab-11
Title: Template and Exception handling

Objective:
- To be familiar with class template and function template
- To be familiar with exception handing mechanism and implement them wherever necessary

Theory:
- Introduction to generic programming
- Function template with their syntax
- Class template with their syntax
- Exception handling mechanism in C++

Lab exercises (please code yourself and show the output to instructor)

1. Create a function templates to find the sum of two integers and floats using function template.
2. Write a C++ Program to find Largest among two integers, characters and float using function template
3. Create a function template to swap two values
4. WAP to find the roots of quadratic equation using function template
5. WAP to perform sum and product of two integer and two floating point data using class template.
6. Create a class template to find the scalar product of vectors of integers and vectors of floating point number
7. Write a program to illustrate exception handling mechanism in C++.
8. Write program that catches multiple exceptions.