Everest Engineering College
Sanepa-2, Lalitpur

Date of distribution:……….
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Subject: Object Oriented Programming in C++

Lab-6

Title: Dynamic memory allocation

Objective:
- To be familiar with Dynamic memory allocation with C++
- To be familiar with Dynamic constructor and Dynamic initialization of Object
- To be familiar with static data member and static member function.
- To Implement the concept of default arguments

Theory:
Dynamic memory allocation by new and delete operator
Dynamic Constructor
Dynamic initialization of Object
Static data member and function
Default arguments

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

1. Write a program to illustrate the dynamic memory allocation.
2. WAP to find the sum of n numbers entered by user using Dynamic Memory Allocation in C++.
3. Write a simple program using of dynamic memory allocation which should include calculation of marks of 3 subjects of n students and displaying the result as pass or fail & name, roll. Pass mark is 45 out of 100 in each subject.
4. Write a program to add two complex numbers by using dynamic constructor.
5. Using class write a program that receives inputs principle amount, time and rate. Keeping rate 8% as the default argument, calculate simple interest for three customers.
6. WAP in C++ to calculate simple interest from given principal, time and rate. Set the rate to 15 % as default argument when rate is not provided and also implement the concept of dynamic initialization of object.
7. Write a C++ program to illustrate the use of static data member and static member functions.