TRINITY INTERNATIONAL COLLEGE

Dillibazar Height, Kathmandu

(Tribhuvan University Affiliated)



Lab 4 (Subject : Object Oriented Programming)

Submitted By: Submitted To:

Name : Bijay Shrestha Program : BSc CSIT Batch : 2077 Roll No. : 8

Semester : Second

Date : 28nd Jan Satya Bahadur Maharjan

KATHMANDU, NEPAL 2022

Assignment 4

- i Write a program defining a class named **toCovert** with one data member. Use necessary member functions for input and output which converts Celsius into Fahrenheit. Write a main() program to exercise this class.
- ii Write a program defining a class named **Account** with three data members for account no, name and balance. Define the user needed functions for input and output to display 'N' account holders. Write a program to exercise this class.
- iii Write a program defining a class named **information** with three data members roll, name and address. Define a user needed functions for input and output of 'N' students. Solve defining a function in class inside and outside.
- iv Write a program defining class having two data members. Define a user needed function for input, comparison and also use nested member function to display the greater among two numbers. Use the member function outside the class definition. Write a main() to exercise this function.
- v Define two private data members feet and inch. Use necessary function for input/output. Define another function **Sum** which finds the sum of two distances passing object. Write a main() program to exercise this class.

```
LAB 4
QL) # include < rostream
using namespace stdi
class to Converta
private:
    int ni
   float y;
public:
   void getdata (int c) &
   n=c;]
   Void convert () 4
   f=(n*9/5)+32;}
   void display () 4
   cout << " temp in fahrenheit" << f; ]
3;
main() h
to Convert tempi
int ci
cout << "enter temp in Celsius:";
cin>> C;
temp getdata(c);
temp. convent ();
temp. display ();
Output
enter temp in celsius - 40
temp in fahrenheit=-46
```

```
(92) # include < 10stream)
# inculde < 10manip>
using namespace std;
class Accounti
private:
    int acc No, balance;
    char name [20];
public:
   void get Data () (
   cout < "enter acc no";
   an 4>> acc No:
   cout << "enter balance";
   cin >> balance
   cout << "enter name":
   cin>> name; 3
   void display () 4
   cout << setw(10) << acc No<< setw(10) << balance <<
   setw (10) << name << endl; ];
main () 1
Account acc[10];
jut ni
cout << "enter no of users";
(in>> n;
for (int = 0; i < n; i++) A
 acc [i]. get Data (); }
cout<< setw(10)<< "AccNo"<< setw(10)<< "Balance" << setw
for (int 1=0; 1<n; 1++) h
acclis display (): 33
 Output.
enter no of users: I
                          AccNo Balance
                                              Namo
enter acc no 54
                             54.
                                  40000
enter balance: 40000
                                               ram
enter name: ram
```

```
&3) # include Liostream>
#include< romany)
using namespace stdi
class information h
private:
    int roll;
    char name [20], add [20];
public!
    void get Data () 1
    cout << "enter name:";
    cin >> name /
   cout << "enter roll no";
   cin>> roll;
    cout << "enter address";
   cin>> add : 3
   void display (); 3;
void information: display () &
cout << setw(15) << name << setw(15) << roll<2 setw(15) << roll<2 setw(15) << roll<
main () h
information acc [10];
int ni
cout << "enter no of stu";
an>>ni
for (int 1-0;12n; 1++) {
acccij. get Data (); ]
for (int 1=0; ICN; 1++) a
acelis. display (); 33
Owput
enter no of stul
enter name ram
enter noll no 2
enter address KTM
                    KTM.
ram
```

```
(84) # include <iostream>
# Include <10 mansp>
using namespace stdi
class Data 2
private:
      inta, y, g;
public.
     void get Data();
void greater();
vord display();
void Data: getData() 1
cout << "enter two nos";
an>>2)
geater Uis
Void Data; greater () h
my? g=n:g:y;
display (); J
void Data :: display () 1
cout << greater "<2g;3
int main () &
Data dat;
dat. get Datal);
Output
enter two nos 5
7
greater 7
```

```
&5)#include < rostream>
#include < 10manip)
using namespace stai
class Data h
private:
    rut feet, inch;
public:
   int li
   void get Data() h
   cout 22" enter feet & inch:";
   cin>feet>>inchi
    L=fect *12+ inchi3
    void len (Data, Data);
3;
void Data:: Len (Data dat A, Data dat B) 2
rut f, i;
f = (datA. L+dat B. L)/12;
i= (dot A. L+ dat B. L) 7.12;
cout<< "length"<<f << ","<< 1<< "\""; }
main () î
Data datl, dat2, l;
dat 1 get Data();
dat 2: get Data();
L. Len(dat 1, dat 2);
B
Output
enter feet & inch: 5
enter fect & inch: 1
Length: 7'10"
```