**Getting the System Time and Date**

#include <ctime>

Some function contains this code to get time and date

//Declare a Coordinated Universal Time or UTC time format variable

//This is a typedef of int

time\_t rawtime;

//Declare the tm struct, which hold individual time information

tm OStime;

//Pass the address of rawtime to Time(), which fills rawtime with UTC seconds

time(&rawtime);

//Pass the address of rawtime and the address of the OStime struct to the localtime\_s function in ctime

localtime\_s(&OStime, &rawtime);

//Now we can access the integer values of system time and date from the OStime struct

//using the dot operator

int month = OStime.tm\_mon + 1; //months are zero-indexed

int day = OStime.tm\_mday;

int year = OStime.tm\_year + 1900; //years since 1900

**We can also get today’s time and date in a formatted C-string**

//First, declare char arrays for date and time

char timeNow[20];

char datenow[20];

/Also declare an error number as an error number variable errno\_t

//This is a typedef of int

errno\_t err;

//The \_strtime\_s function fills a character array with system time

//The \_strdate\_s function gives us the date

err = \_strtime\_s(timeNow, 20); //if err = 0, no error, else there was an error

err = \_strdate\_s(dateNow, 20);

Now you can cout timeNow to get 19:32:33 and dateNow to get 9/29/2013