//Demo program to demonstrate converting numerics to C++ strings

#include <string>

#include <iostream>

#include <sstream> //needed for stringstream objects

using namespace std;

int main()

{

int month, day, year;

string s1, s2, s3, s4;

stringstream ss1, ss2, ss3; //create 3 string streams

month = 2;

day = 27;

year = 2017;

//put integer values into string streams

ss1 << month;

ss2 << day;

ss3 << year;

//Extract string versions of integers from the string stream

s1 = ss1.str();

s2 = ss2.str();

s3 = ss3.str();

//Build new date string

s4 = s1 + "/" + s2 + "/" + s3;

cout << s4 << endl << endl << endl;

//Now try this with double

//Clear the string streams - two techniques

ss1.str("");

ss2.str(string());

ss3.str(string());

//Create 3 double variables and assign values

double d1, d2, d3;

d1 = 3.14;

d2 = 2.71;

d3 = 123.456;

//put doubles into string streams

ss1 << d1;

ss2 << d2;

ss3 << d3;

//Extract string versions of doubles from the string stream

s1 = ss1.str();

s2 = ss2.str();

s3 = ss3.str();

//Build and output a new string

s4 = "Pi = " + s1 + "\ne = " + s2 + "\n" + s3;

cout << s4 << endl;

return 0;

}