#include <iostream>

#include <stdlib.h>

#include<string>

using namespace std;

void main()

{

char charValue1[5],charValue2[5];

int value1, value2,sum1,sum2,tsum;

string s1,s2,bob,n;

//using pointers to change strings into char arrays

cout<<"Enter a # up to 4 digits:"<<endl;

cin>>s1;

cout<<"Enter another # up to 4 digits:"<<endl;

cin>>s2;

const char\* s1\_ptr;

s1\_ptr=s1.c\_str();

value1=atoi(s1\_ptr);

const char\* s2\_ptr;

s2\_ptr=s2.c\_str();

value2=atoi(s2\_ptr);

sum1=value1+value2;

cout << sum1<< endl;

cin.ignore();

//using atoi to change char arrays into values

cout<<"Enter a # up to 4 digits:"<<endl;

cin.get(charValue1,5);

cin.ignore();

cout<<"Enter another # up to 4 digits:"<<endl;

cin.get(charValue2,5);

cin.ignore();

value1 = atoi(charValue1);

value2 = atoi(charValue2);

sum2=value1+value2;

cout << sum2 << endl;

//using itoa to change values into strings

char rca[20],ica[20],sca[20];

string fsstr,ssstr,tsstr;

tsum=sum1+sum2;

itoa(sum1,rca,10);

fsstr=rca;

itoa(sum2,ica,10);

ssstr=ica;

itoa(tsum,sca,10);

tsstr=sca;

cout<< fsstr + "+" + ssstr + "="+ tsstr<<endl;;

// using .data() to change strings to char arrays

const char \*chararray =0;

cout<<"Enter a name:"<<endl;

cin>>n;

chararray=n.data();

cout<<chararray<<endl;

// adding strings and chararrays

bob=n+rca;

cout<<bob<<endl;\

}