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**Homework5\_1**

**Code :**

#include<iostream>

#include<string>

#include<sstream>

using namespace std;

int main(){

char buf[2];

cout << "Please enter two characters : ";

cin >> buf;

// cout << buf[1];

char char1 = buf[0];

char char2 = buf[1];

while (int(char1) >= int(char2))

{

cout << "Input error, please check and reinput the 2nd char : ";

cin >> buf[1];

char2 = buf[1];

}

cout << endl;

// int length = int(buf[1])-int(buf[0]);

// int intArray[length];

char c;

int temp;

for(c=buf[0]; c<=buf[1]; c++){

//decimal

temp = int(c);

//octal

string temp1;

stringstream sc;

sc << std::oct <<temp;

sc >> temp1;

//hexadecimal

string temp2;

stringstream ss;

ss << std::hex <<temp;

ss >> temp2 ;

// transform(temp2.begin(), out.end(), out.begin(), ::toupper);

//cout 3 types

cout << c << " ---- Decimal : " << temp;

cout << " ---- Octal : " << temp1;

cout << " ---- Hexadecimal : " << temp2 <<endl;

}

}

//This code is created by Hanlin Cai

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