// =======================

// Attached: HW\_10\_a\_b\_c\_d

// =======================

// HW\_10\_a

// =======================

// Youssef Abdelwahab

// CS 1B

// =======================

#include <iostream>

#include <iomanip>

#include<fstream>

#include <string>

#include <cmath>

#include "algorthim.h"

using namespace std;

int main()

{

algorthim variable;

int number = 10;

int number2 = 11;

char letter = 'A';

char letter2 = 'Z';

float floatnum = 2.33;

float floatnum2 = 2.12;

variable.max(number, number2);

variable.max(letter, letter2);

variable.max(floatnum, floatnum2);

system("pause>null");

return 0;

}

Text

Description automatically generated

// =======================

// Attached: Hw#10\_a\_b\_c\_d

// =======================

// HW\_10\_b

// =======================

// Youssef Abdelwahab

// CS 1B

// =======================

#include <iostream>

#include <iomanip>

#include<fstream>

#include <string>

#include <cmath>

#include <vector>

using namespace std;

int main()

{

vector<int>values = { 1,2,4,9,5 };

cout << "\nHere are all values in the vector: " << endl;

for (int i = 0; i < values.size(); i++)

{

cout << values[i] << endl;

}

values.insert(values.begin(), 3);

cout << "\nHere are all values in the vector: " << endl;

for (int i = 0; i < values.size(); i++)

{

cout << values[i] << endl;

}

values.erase(values.begin() + 4);

cout << "\nHere are all values in the vector: " << endl;

for (int i = 0; i < values.size(); i++)

{

cout << values[i] << endl;

}

values.size();

system("pause>null");

return 0;

}

Text

Description automatically generated

// =======================

// Attached: Hw#10\_a\_b\_c\_d

// =======================

// HW10\_c

// =======================

// Youssef Abdelwahab

// CS 1B

// =======================

#include <iostream>

#include <iomanip>

#include<fstream>

#include <string>

#include <cmath>

#include <vector>

using namespace std;

int main()

{

const int NUM\_EMPLOYEES = 5;

vector<int>hours;

vector<int>wage;

cout<< "Enter hours worked and hourly wage of each employee:\n\n";

for (int i = 0; i < 5; i++)

{

cout << "Hours for Employee #" << i + 1 << ": ";

cout << hours[i];

cout << "Wage for Employee #" << i + 1 << ": ";

cout << wage[i];

system("cls");

cout << fixed << setprecision(2);

cout << "Gross pay for each employee:\n\n";

for (int i = 0; i < 5; i++)

{

cout << setw(11) << "Employee #" << i + 1 << setw(5) << "$"

<< setw(7) << hours[i] \* wage[i] << endl;

}

cout << "Employee #1 hours = " << hours.front();

cout << "Employee #5 hours = " << hours.back();

system("pause>null");

return 0;

} Text

Description automatically generated

Text

Description automatically generated

// =======================

// Attached: Hw#10\_a\_b\_c\_d

// =======================

// HW10\_d

// =======================

// Youssef Abdelwahab

// CS 1B

// =======================

#include <list>

#include <iostream>

#include <string>

using namespace std;

int main()

{

list<char> characters;

string word;

cout << "Enter a word: ";

getline(cin, word);

for (int i = 0; word[i] != '\0'; i++)

{

characters.push\_back(word[i]);

}

string p = word;

reverse(p.begin(),p.end());

if (word == P) {

cout << "this word is a palindrome”;

}

else {

cout << "this word is not a palindrome";

}

return 0;

}

