Graphical user interface, text

Description automatically generated

// Author: Kenry Yu, Olenka Bilinska

// Demo at 4:49pm

#include <iostream>

using namespace std;

int pow\_recurr(int x, int y) {

if (y == 0)

return 1;

else if (y == 1)

return x;

else

return x \* pow\_recurr(x, y - 1);

}

int pow\_iter(int x, int y) {

int n = 1;

for (int i = 1; i <= y; ++i)

n \*= x;

return n;

}

int main() {

int x, y;

cout << "Some calculations" << endl;

cout << "X: ";

cin >> x;

cout << "Y: ";

cin >> y;

cout << "Recurrsion Result: " << pow\_recurr(x, y) << endl;

cout << "Iterative Result: " << pow\_iter(x, y) << endl;

return 0;

}