**THEORY OF COMPUTATION – CSA1353**

CAPSTONE PROJECT

PASSWORD GENERATOR

#include <iostream>

#include <string>

#include <cstdlib>

#include <ctime>

#include <sstream>

using namespace std;

string suggestPassword(const string& input) {

string password;

srand(time(0));

password += input[rand() % input.length()];

stringstream ss;

ss << rand() % 100;

password += ss.str();

password += char(rand() % 26 + 'a');

password += char(rand() % 26 + 'A');

for (int i = 0; i < 4; ++i) {

password += char(rand() % 94 + 33);

}

return password;

}

int main() {

string input;

cout << "Enter some input to generate a password: ";

getline(cin, input);

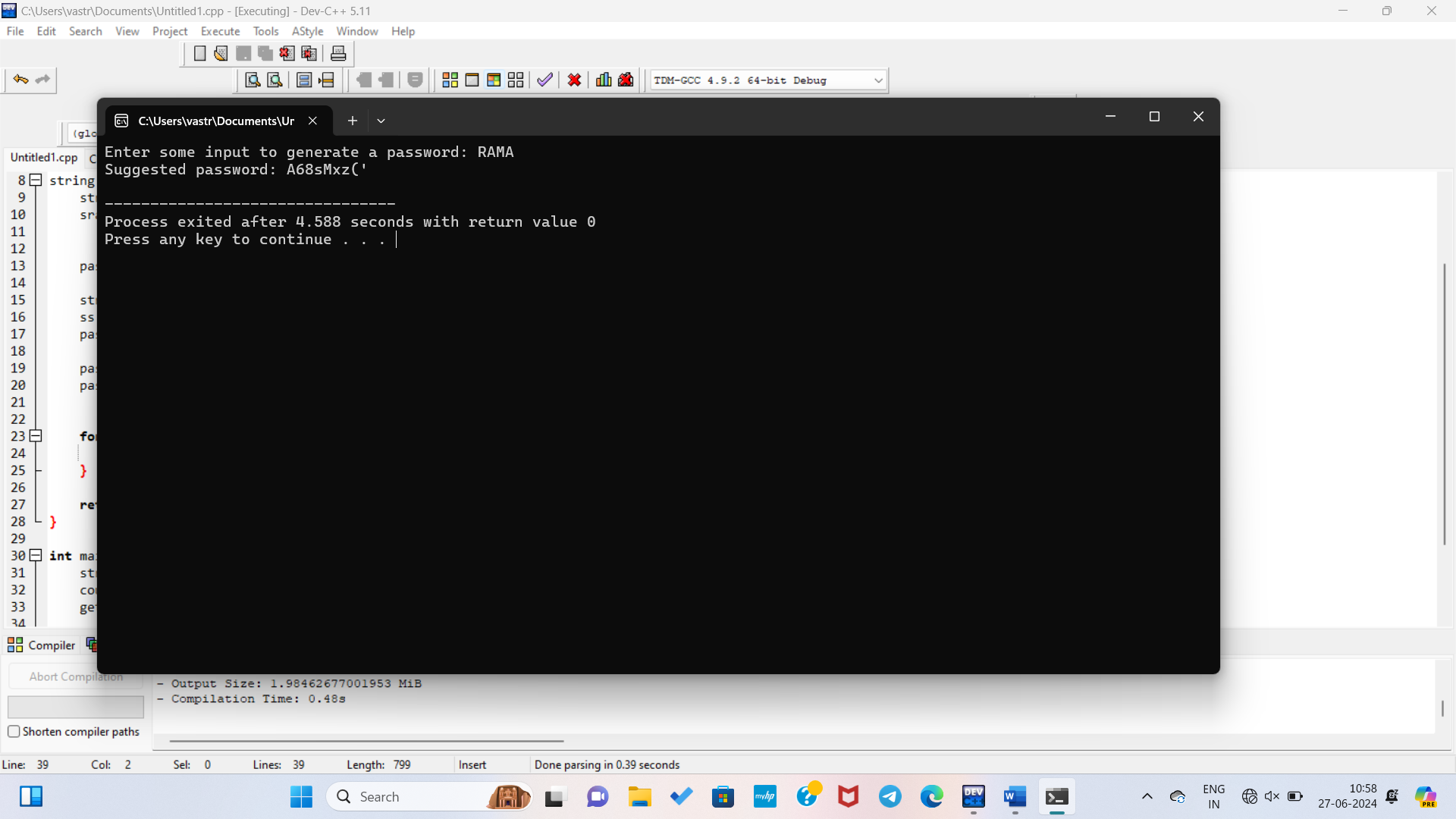
string password = suggestPassword(input);

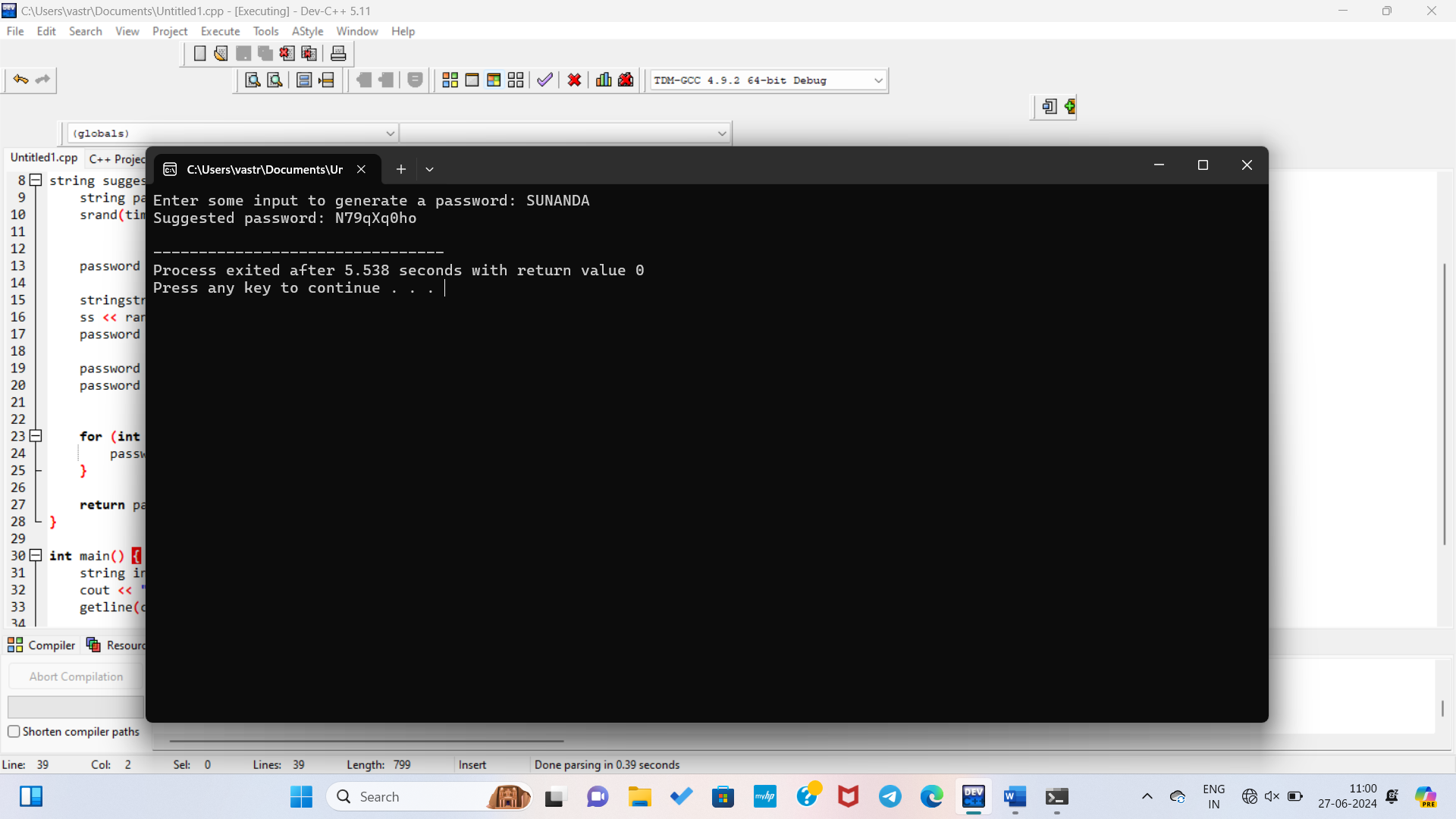
cout << "Suggested password: " << password << endl;

return 0;

}

**OUTPUT**

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