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**Course and Course code :** Compiler Construction (2CS701)

**Practical 2 :**

**To implement a Recursive Descent Parser Algorithm for the grammar.**

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**Code:**

#include <bits/stdc++.h>

using namespace std;

string input;

size\_t pos = 0;

bool parseS();

bool parseA();

bool parseS() {

if (input[pos] == 'c') {

pos++;

if (parseA()) {

if (input[pos] == 'd') {

pos++;

return true;

}

}

}

return false;

}

bool parseA() {

if (input[pos] == 'a' || input[pos] == 'c') {

pos++;

return true;

}

return false;

}

int main() {

cout << "Enter a string: ";

cin >> input;

if (parseS() && pos == input.length()) {

cout << "String Accept" << endl;

} else {

cout << "String Not Accept" << endl;

}

return 0;

}

**Output:**

s->cAd

A->a/c

cad accept

cdd not accept

**Conclusion :**

In this practical, i learn how to implement a Recursive Descent Parser Algorithm for the grammar.