PRACTICAL 2

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**AIM:** TO IMPLEMENT A RECURSIVE DESCENT PARSER ALGORITHM FOR THE

GRAMMAR

𝑆 → 𝐸 + 𝑖

𝐸 → 𝑖 ∗ 𝐸 | 𝑡

CODE: -

|  |
| --- |
| #include <stdio.h>  char ch; int fail = 0;  void next(char n) { if (ch == n) { ch = getchar();  } else { printf("Error"); fail = 1;  }  } void next2() { if (ch == 'i') { next('i'); next('\*'); next2();  } else if (ch == 't') { next('t');  } |
| } void start() { next2(); if (ch == '+') { next('+'); next('i'); } else { fail = 1; printf("Error");  }  } int main() { ch = getchar(); start();  if (!fail) printf("Success");  } |

OUTPUT: -

|  |
| --- |
| D:\STUDY\CC\LAB>a t+i  Success  D:\STUDY\CC\LAB>a t++i Error |