9.All languages have Grammar. When people frame a sentence we usually say whether the sentence is framed as per the rules of the Grammar or Not. Similarly use the same ideology , implement to check whether the given input string is satisfying the grammar or not .

**PROGRAM:**

#include <stdio.h>

#include <stdbool.h>

#include <string.h>

bool checkGrammar(char input[]) {

int len = strlen(input);

if (len == 0)

return false;

if (input[0] != 'a')

return false;

if (input[len - 1] != 'b')

return false;

return true;

}

int main() {

char input[100];

printf("Enter a string: ");

scanf("%s", input);

if (checkGrammar(input))

printf("Input string satisfies the grammar.\n");

else

printf("Input string does not satisfy the grammar.\n");

return 0;

}

**OUTPUT:**

