**PRACTICAL – 8**

|  |  |
| --- | --- |
|  | **Problem statement**  ***Write a c program to remove the Left Recursion from a given grammar*** |

**SOLUTION:**

|  |
| --- |
| **CODE:**  #include <stdio.h>  #include <string.h>  void removeLeftRecursion(char\* *nonTerminal*, char\* *alpha*, char\* *beta*) {      printf("Grammar without left recursion:\n");      printf("%s -> %s%s'\n", *nonTerminal*, *beta*, *nonTerminal*);      printf("%s' -> %s%s' | ε\n", *nonTerminal*, *alpha*, *nonTerminal*);  }  int main() {      char nonTerminal[10], alpha[10], beta[10];        printf("Enter the non-terminal: ");      scanf("%s", nonTerminal);      printf("Enter the alpha (recursive part): ");      scanf("%s", alpha);      printf("Enter the beta (non-recursive part): ");      scanf("%s", beta);        removeLeftRecursion(nonTerminal, alpha, beta);        return 0;  }  **OUTPUT:** |