```
#include <stdio.h>
#include <string.h>
#define MAX_EXPRESSIONS 10
#define MAX LENGTH 30
void generateTargetCode(char icode[MAX_EXPRESSIONS][MAX_LENGTH], int numExpressions);
int main()
    int numExpressions;
    printf("\n Kindly enter the number of 3 address codes: ");
    scanf("%d", &numExpressions);
    if (numExpressions <= 0 || numExpressions > MAX_EXPRESSIONS)
         printf("Invalid number of codes. Exiting.\n");
         return 1;
    }
    char icode[MAX_EXPRESSIONS][MAX_LENGTH];
    for (int i = 0; i < numExpressions; ++i)</pre>
         printf(" Kindly enter 3 address code no %d: ",i+1);
         scanf("%s", icode[i]);
    }
    printf("\n Target code generation");
printf("\n **************************);
    generateTargetCode(icode, numExpressions);
    printf("\n");
    return 0;
}
void generateTargetCode(char icode[MAX_EXPRESSIONS][MAX_LENGTH], int numExpressions)
    char str[MAX_LENGTH], opr[10];
    for (int i = 0; i < numExpressions; ++i)</pre>
         strcpy(str, icode[i]);
         switch (str[3])
              case '+':
                  strcpy(opr, "ADD ");
                  break;
              case
                  strcpy(opr, "SUB ");
                  break;
              case
                  strcpy(opr, "MUL ");
                  break;
              case
                  strcpy(opr, "DIV ");
                  break;
              default:
                   //strcpy(opr, "UNKNOWN ");
                  break;
         }
         printf("\n\tMOV %c,R%d", str[2], i);
printf("\n\t%s%c,R%d", opr, str[4], i);
printf("\n\tMOV R%d,%c", i, str[0]);
    }
}
```