

Problem NO: 14

Problem Name: Write a c program to implement grading system using macros.

Input	output
50	F
60	D
95	A

Source Code:

```
#include <stdio.h>

#define A_GRADE 90
#define B_GRADE 80
#define C_GRADE 70
#define D_GRADE 60
#define GET_GRADE(score) \
    (score >= A_GRADE) ? 'A' : \
    (score >= B_GRADE) ? 'B' : \
    (score >= C_GRADE) ? 'C' : \
    (score >= D_GRADE) ? 'D' : 'F'

int main() {
    int studentScore;
    scanf("%d", &studentScore);
    printf("%c\n", GET_GRADE(studentScore));

    return 0;
}
```

### Result and Analysis:

In this program there are four macros defined. They check the condition if it's true or not then in the main function the function of defined macro is being called and shows the output of included grade.