

Problem6: Calculate total and average of three subjects and assign grades.

Code:

```
#include <stdio.h>
#include <string.h>

int main() {
    int sub1, sub2, sub3, total;
    float avg;
    char grade[25];

    printf("Enter marks of 3 subjects: ");
    scanf("%d %d %d", &sub1, &sub2, &sub3);

    total = sub1 + sub2 + sub3;
    avg = total / 3.0;

    if (avg >= 70)
        strcpy(grade, "Distinction");
    else if (avg >= 60)
        strcpy(grade, "First Class");
```

```
else if (avg >= 50)
    strcpy(grade, "Second Class");
else if (avg >= 35)
    strcpy(grade, "Third Class");
else
    strcpy(grade, "Fail");

printf("Total Marks = %d\n", total);
printf("Average Marks = %.2f\n", avg);
printf("Grade = %s\n", grade);

return 0;
}
```

Output:

80 75 90

Total marks: 245

Average: 81.67

Grade: Distinction