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


int main()
{
    int n;
    printf("choose an option\n");
    printf("1 : recruit\n");
    printf("2 : list\n");
    printf("enter your choice: ");
    scanf("%d",&n);

    int id;
    char name[50];
    int age;
    char rank[50];

    //creating a file named "army.txt"
    FILE *fp  = fopen("army.txt","a");
    if(fp == NULL){
        printf("Error opening file!\n");
        return 1;
    }
    fclose(fp);
```

```c
//listing information about the soldiers
if(n == 2)
{

    //Read from file
    FILE *fp = fopen("army.txt","r");
    printf("Output:\n");
    if(fp == NULL)
    {
        printf("Error opening file!\n");
        return 1;
    }
    //Print army details
    printf("ID\tName\tRank\tAge\n");
    while(fscanf(fp," %d %s %s %d", &id,name,rank,&age) != EOF){
        printf("%d\t%s\t%s\t%d\n", id, name,rank, age);
    }
    fclose(fp);
}


if(n == 1)
{

    int s;
    //write to file
    printf("Enter the number of soldiers to be recruited: ");
    scanf("%d",&s);
    for(int i = 0; i < s; i++)
    {
```

```c
    for(int i = 0; i < s; i++)
    {
        printf("enter the id name  rank age of soldier %d:",i+1);
        scanf("%d %s %s %d",&id,name,rank,&age);
        FILE *fp  = fopen("army.txt","a");
        if(fp == NULL){
            printf("Error opening file!\n");
            return 1;
        }
        fprintf(fp, " %d %s %s %d\n", id, name, rank, age);
        fclose(fp);
    }
}
return 0;
}
```

```
choose an option
1 : recruit
2 : list
enter your choice: 1
Enter the number of soldiers to be recruited: 3
enter the id name  rank age of soldier 1:1 rahul major 38
enter the id name  rank age of soldier 2:2 ravi captain 29
enter the id name  rank age of soldier 3:3 Ankit cadet 23
```

```
choose an option
1 : recruit
2 : list
enter your choice: 2
Output:
ID      Name    Rank    Age
12      sarang  general 23
1       rahul   major   38
2       ravi    captain 29
3       Ankit   cadet   23
```