1. **Write a C program to read name and marks of n number of students from user and store them in a file.**

```
#include <stdio.h>
int main()
{
  char name[50];
  int marks, i, num;

  printf("Enter number of students: ");
  scanf("%d", &num);

  FILE *fptr;
  fptr = (fopen("C:\\student.txt", "w"));
  if(fptr == NULL)
  {
     printf("Error!");
     exit(1);
  }

  for(i = 0; i < num; ++i)
  {
    printf("For student%d\nEnter name: ", i+1);
    scanf("%s", name);

    printf("Enter marks: ");
    scanf("%d", &marks);

    fprintf(fptr,"\nName: %s \nMarks=%d \n",
name, marks);
  }

  fclose(fptr);
  return 0;
}
```

2. Write a C program to read name and marks of n number of students from user and store them in a file. If the file previously exits, add the information of n students.

```
#include <stdio.h>
int main()
{
  char name[50];
  int marks, i, num;

  printf("Enter number of students: ");
  scanf("%d", &num);

  FILE *fptr;
  fptr = (fopen("C:\\student.txt", "a"));
  if(fptr == NULL)
  {
     printf("Error!");
     exit(1);
  }

  for(i = 0; i < num; ++i)
  {
    printf("For student%d\nEnter name: ", i+1);
    scanf("%s", name);

    printf("Enter marks: ");
    scanf("%d", &marks);

    fprintf(fptr,"\nName: %s \nMarks=%d \n",
name, marks);
  }

  fclose(fptr);
  return 0;
}
```

3. Write a C program to write all the members of an array of structures to a file using fwrite(). Read the array from the file and display on the screen.

```
#include <stdio.h>
struct student
{
  char name[50];
  int height;
};
int main(){
   struct student stud1[5], stud2[5];
   FILE *fptr;
   int i;

   fptr = fopen("file.txt","wb");
   for(i = 0; i < 5; ++i)
   {
      fflush(stdin);
      printf("Enter name: ");
      gets(stud1[i].name);

      printf("Enter height: ");
      scanf("%d", &stud1[i].height);
   }

   fwrite(stud1, sizeof(stud1), 1, fptr);
   fclose(fptr);

   fptr = fopen("file.txt", "rb");
   fread(stud2, sizeof(stud2), 1, fptr);
   for(i = 0; i < 5; ++i)
   {
      printf("Name: %s\nHeight: %d",
stud2[i].name, stud2[i].height);
   }
   fclose(fptr);
}
```