Store and retrieve the name of the students and obtained marks in c programming in 1st semester using structure.

```
#include <stdio.h>
// header file for console input output
// basic data structure;
struct student
char name[20];
int marks;
};
/******
* Stores new student name and marks in file
* \param filename
*******/
int store(char* filename)
// opening file in appending mode
 FILE* fp = fopen(filename,"a+");
 // checking if the file is available
if (fp == NULL)
   fprintf(stderr,"could not open the file");
   return -1;
 // decalaring struct variable
struct student student;
 // temp variable
char ans;
 do
   // asking user for student infromation
   printf("Enter the name of the student");
   scanf(" %s",student.name);
   printf("Enter the marks obtained by student in computer science");
   scanf(" %d",&student.marks);
   // writing the student to the file
   fprintf(fp,"%s %d",student.name,student.marks);
```

```
printf("Press y to continue\n");
   // asking if user want to continue updating the record
   scanf(" %c",&ans);
while( ans == 'y');
fclose(fp);
 return 0;
/*****
* retrives the student record from the file
* \params filename
******/
int retrive(char* filename)
 // temprorary struct
 struct student student;
 // opening the file in read mode
FILE* fp = fopen(filename, "r");
 // checking if file was sucessfully opened
 if (fp == NULL)
 {
   fprintf(stderr,"Could not open the file");
   return -1;
// getting the each input and printing them out
 while(1)
  {
  fscanf(fp,"%s %d",student.name,&student.marks);
   printf("Student Name %s\n",student.name);
   printf("Student Marks %d\n",student.marks);
   printf("\n");
   if (feof(fp))
      break;
  }
return 0;
int main()
```

```
// getting user option
 char filename[50];
 printf("Enter the filename");
 scanf(" %s",filename);
 printf("What do you want to do:\n");
 printf("1. Store data\n");
 printf("2. Retrive data\n");
 int choice;
 scanf(" %d",&choice);
 switch(choice)
  {
  case 1:
   store(filename);
      break;
  case 2:
   retrive(filename);
      break;
  default:
   return -3;
  }
return 0;
#include<stdio.h>//or
#include<windows.h>
struct data
  char name[10];
  int marks;
};
int main()
{
  int NoOfStudents;
  printf("Enter no of students whose data is to be added:\t");
  scanf("%d",&NoOfStudents);
  struct data std[NoOfStudents];
  for(i=0;i<NoOfStudents;i++)</pre>
  {
    printf("Enter name for student %d:\t",i+1);
```

```
scanf(" %[^\n]s",&std[i].name);
printf("Enter marks for C:\t");
scanf("%d",&std[i].marks);
}
system("cls");
for(i=0;i<NoOfStudents;i++)
{
    printf("Name: %s\n",std[i].name);
    printf("Marks in C: %d\n",std[i].marks);
}</pre>
```