**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;**

**int i;**

**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++)**

**{**

**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);**

**}**

**}**