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#include<stdio.h>
#include<conio.h>
#include<string.h>
int main()
{
    int roll,class,age,c,delroll,run;
    char name[100],ch;
    FILE *fptr1=NULL,*fptr2=NULL;

    do {
        printf("Enter choices\n");
        printf("1. Write Records\n2. Read all
records\n");
        printf("3. Display records of student having age >
18\n");
        printf("4. Delete a record\n5. Exit\n");
        scanf("%d", &run);
        switch( run )
        {
            case 1:
                if ( fptr1 == NULL )
                {
                    fptr1=fopen("Class12.txt","w");
                }
                else
                {
                    fptr1=fopen("Class12.txt","a+");
                }
                do
                {
                    printf("Enter your roll no:\n");
                    scanf("%d",&roll);

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        printf("Enter your name:\n");
        scanf("%s",name);
        printf("Enter your class:\n");
        scanf("%d",&class);
        printf("Enter your age:\n");
        scanf("%d",&age);

fprintf(fp1,"%d\t%s\t%d\t%d\n",roll,name,class,age);
        printf("Enter n TO TERMINATE AND ANY OTHER
KEY TO CONTINUE:\n");
        ch=getche();
        } while (ch!='n');
        fclose(fp1);
        break;
    case 2:
        printf("\n2.READING RECORDS FROM A FILE
AND DISPLAYING THEM\n");
        fp1=fopen("Class12.txt","r");
        if( fp1 == NULL )
        {
            printf("No record exists!!!\n");
            break;
        }

        printf("\nROLL\t\tNAME\t\tCLASS\t\tAGE\n");

        while((fscanf(fp1,"%d\t%s\t%d\t%d\n",&roll,&name,&class,
&age))!=EOF)
        {

        printf("%d\t\t%s\t\t%d\t\t%d\n",roll,name,class,age);
        }
        fclose(fp1);
        break;

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        case 3:
            printf("3.DISPLAYING RECORDS OF STUDENT
WHOSE AGE IS MORE THAN 18\n");
            fptr1=fopen("Class12.txt","r");
            if( fptr1 == NULL )
            {
                printf("No record exists!!!\n");
                break;
            }
            printf("ROLL\t\tNAME\t\tCLASS\t\tAGE\n");

            while((fscanf(fptr1,"%d\t%s\t%d\t%d\n",&roll,&name,&class,
&age))!=EOF)
            {
                if(age>18)

printf("%d\t\t%s\t\t%d\t\t%d\n",roll,name,class,age);
                }
                fclose(fptr1);
                break;
        case 4:
            printf("4.DELETE PARTICULAR RECORD\n");
            fptr1=fopen("Class12.txt","r");
            if( fptr1 == NULL )
            {
                printf("No record exists!!!\n");
                break;
            }
            fptr2=fopen("Duplicate.txt","w");
            printf("ENTER ROLL NO WHOSE DATA IS TO BE
DELETED:\n");

            scanf("%d",&delroll);

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while((fscanf(fp1,"%d\t%s\t%d\t%d\n",&roll,&name,&class,
&age))!=EOF)
{
    if(delroll!=roll)

fprintf(fp2,"%d\t%s\t%d\t%d\n",roll,name,class,age);
    }
    fclose(fp1);
    fclose(fp2);
    remove("Class12.txt");
    rename("Duplicate.txt","Class12.txt");
    printf("\nRECORD IS DELETED
SUCCESSFULLY!!\n");
    break;
case 5:
    printf("Thank you for using our
software!!!\n");
    break;
default:
    printf("Enter a valid choice!\n");
    break;
}
} while( run != 5);

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