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| --- |
| /\* |
|  | filename: case7.cpp |
|  | details: Program to perform filehandling in 'notes.ini' file |
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|  | date: 11/04/2020 |
|  | \*/ |
|  | #include<iostream> |
|  | #include<string.h> |
|  | #include<stdio.h> |
|  | #include<stdlib.h> |
|  | using namespace std; |
|  |  |
|  | class Notes{ |
|  | private: |
|  | //declaring variables for the file |
|  | char cPrg[300]; |
|  | char cDir[300]; |
|  | int iKit; |
|  | int iInstall; |
|  | int iPNo; |
|  | int iStatusWindow; |
|  | char cService[300]; |
|  | char cRecovery[200]; |
|  | int iTimezone; |
|  | int iDst; |
|  | int iDstlaw; |
|  | char cFiledir[300]; |
|  |  |
|  | //waitforEnter function, it waits for the user to give enter, it help in ease of execution step by step |
|  | void waitForEnter(){ |
|  | cout<<"\n\n\n Press enter to go back \n\n"; |
|  | cin.get(); |
|  | } |
|  |  |
|  | //addNotesInfo function, adds the data in notes.ini if the file does not exists it will create one. |
|  | void addNotesInfo(void) |
|  | { |
|  | char moreRecords; |
|  | //adds records till while loop is true or moreRecords == 'y' |
|  | do{ |
|  | cout<<"\n----------------------------------------"; |
|  | cout<<"\n NotesProgram= "; |
|  | cin>>cPrg; |
|  | cout<<"\n Directory= "; |
|  | cin>>cDir; |
|  | cout<<"\n KitType= "; |
|  | cin>>iKit; |
|  | cout<<"\n InstallType= "; |
|  | cin>>iInstall; |
|  | cout<<"\n PartitionNumber= "; |
|  | cin>>iPNo; |
|  | cout<<"\n showControllerStatusWindow= "; |
|  | cin>>iStatusWindow; |
|  | cout<<"\n ServiceName= "; |
|  | cin>>cService; |
|  | cout<<"\n FaultRecovery\_Build= "; |
|  | cin>>cRecovery; |
|  | cout<<"\n Timezone= "; |
|  | cin>>iTimezone; |
|  | cout<<"\n DST= "; |
|  | cin>>iDst; |
|  | cout<<"\n DSTLAW= "; |
|  | cin>>iDstlaw; |
|  | cout<<"\n FileDlgDirectory= "; |
|  | cin>>cFiledir; |
|  |  |
|  | cout<<"\n----------------------------------------"; |
|  |  |
|  | char ch; |
|  | cout<<"\nEnter 'y' to save above information\n"; |
|  | cin>>ch; |
|  | //adds data if the condition is 'y' |
|  | if(ch=='y'){ |
|  | FILE \*file; |
|  | //creates or appends the notes.ini file |
|  | file= fopen("notes.ini","a"); |
|  | //prints data into notes.ini file |
|  | fprintf(file,"\n NotesProgram= %s \n Directory= %s \n KitType= %i \n InstallType= %i \n PartitionNumber= %i \n showControllerStatusWindow= %i \n ServiceName= %s \n FaultRecovery\_Build= %s \n Timezone= %i \n DST= %i \n DSTLAW= %i \n FileDlgDirectory= %s \n", cPrg, cDir, iKit, iInstall, iPNo, iStatusWindow, cService, cRecovery, iTimezone, iDst, iDstlaw, cFiledir); |
|  | fclose(file); |
|  | cout<<"\n Information is added to database\n"; |
|  | } |
|  | else |
|  | addNotesInfo(); //if condition is 'n' it recalls the addNotesInfo function |
|  | waitForEnter(); |
|  | getchar(); |
|  | cout<<"do you want to add more records? (Y/N)"; |
|  | cin>>moreRecords; |
|  | }while(moreRecords=='y'); |
|  | } |
|  |  |
|  | // listconfig function, shows the total data present inside the notes.ini file |
|  | void listconfig(void) |
|  | { |
|  | FILE \*file; |
|  | //reads notes.ini file |
|  | file= fopen("notes.ini", "r"); |
|  | cout<<"\n\t\t ListConfig \n"; |
|  |  |
|  | while(fscanf(file,"\n NotesProgram= %s \n Directory= %s \n KitType= %i \n InstallType= %i \n PartitionNumber= %i \n showControllerStatusWindow= %i \n ServiceName= %s \n FaultRecovery\_Build= %s \n Timezone= %i \n DST= %i \n DSTLAW= %i \n FileDlgDirectory= %s \n", &cPrg[0], &cDir[0], &iKit, &iInstall, &iPNo, &iStatusWindow, &cService[0], &cRecovery[0], &iTimezone, &iDst, &iDstlaw, &cFiledir[0])!= EOF) |
|  | { |
|  | cout<<"\n----------------------------------------"; |
|  | cout<<"\n NotesProgram= "<<cPrg; |
|  | cout<<"\n Directory= "<<cDir; |
|  | cout<<"\n KitType= "<<iKit; |
|  | cout<<"\n InstallType= "<<iInstall; |
|  | cout<<"\n PartitionNumber= "<<iPNo; |
|  | cout<<"\n showControllerStatusWindow= "<<iStatusWindow; |
|  | cout<<"\n ServiceName= "<<cService; |
|  | cout<<"\n FaultRecovery\_Build= "<<cRecovery; |
|  | cout<<"\n Timezone= "<<iTimezone; |
|  | cout<<"\n DST= "<<iDst; |
|  | cout<<"\n DSTLAW= "<<iDstlaw; |
|  | cout<<"\n FileDlgDirectory= "<<cFiledir; |
|  | cout<<"\n----------------------------------------"; |
|  | } |
|  |  |
|  | fclose(file); |
|  | waitForEnter(); |
|  | } |
|  |  |
|  | //editExisting function, used in updating the existing records |
|  | //creates a temp file writes new updated records and renames them temp file to notes.ini |
|  | void editExisting(void) |
|  | { |
|  | char checkId[30]; |
|  | cout<<"\nEnter Server Name= "; |
|  | cin>>checkId; |
|  | char newFiledir[300]; |
|  | cout<<"\n-----------------------------"; |
|  | cout<<"\nEnter new FileDlgDirectory= "; |
|  | cin>>newFiledir; |
|  |  |
|  | FILE \*file, \*tempfile; |
|  | file= fopen("notes.ini", "r"); |
|  | tempfile= fopen("temp.ini", "w"); |
|  | while(fscanf(file,"\n NotesProgram= %s \n Directory= %s \n KitType= %i \n InstallType= %i \n PartitionNumber= %i \n showControllerStatusWindow= %i \n ServiceName= %s \n FaultRecovery\_Build= %s \n Timezone= %i \n DST= %i \n DSTLAW= %i \n FileDlgDirectory= %s \n", &cPrg[0], &cDir[0], &iKit, &iInstall, &iPNo, &iStatusWindow, &cService[0], &cRecovery[0], &iTimezone, &iDst, &iDstlaw, &cFiledir[0])!= EOF) |
|  | { |
|  | //checks the ServerName either its present in the record or not. |
|  | if(strcmp(checkId, cService)==0) |
|  | fprintf(tempfile, "\n NotesProgram= %s \n Directory= %s \n KitType= %i \n InstallType= %i \n PartitionNumber= %i \n showControllerStatusWindow= %i \n ServiceName= %s \n FaultRecovery\_Build= %s \n Timezone= %i \n DST= %i \n DSTLAW= %i \n FileDlgDirectory= %s \n", cPrg, cDir, iKit, iInstall, iPNo, iStatusWindow, cService, cRecovery, iTimezone, iDst, iDstlaw, newFiledir); |
|  | else |
|  | fprintf(tempfile, "\n NotesProgram= %s \n Directory= %s \n KitType= %i \n InstallType= %i \n PartitionNumber= %i \n showControllerStatusWindow= %i \n ServiceName= %s \n FaultRecovery\_Build= %s \n Timezone= %i \n DST= %i \n DSTLAW= %i \n FileDlgDirectory= %s \n", cPrg, cDir, iKit, iInstall, iPNo, iStatusWindow, cService, cRecovery, iTimezone, iDst, iDstlaw, cFiledir); |
|  | } |
|  | fclose(file); |
|  | fclose(tempfile); |
|  | int isRemoved= remove("notes.ini"); |
|  | int isRenamed= rename("temp.ini", "notes.ini"); |
|  | waitForEnter(); |
|  | } |
|  |  |
|  | //Deleting the records in notes.ini |
|  | void deleteConfig(void){ |
|  |  |
|  | char checkId[30]; |
|  | cout<<"\nEnter Server Name= "; |
|  | cin>>checkId; |
|  | char ch; |
|  | cout<<"\n\n\n Confirmation\n Enter 'y' To Confirm Deletion \n"; |
|  | cin>>ch; |
|  | if(ch=='y'){ |
|  | FILE \*file, \*tempfile; |
|  | file= fopen("notes.ini", "r"); |
|  | tempfile= fopen("temp.ini", "w"); |
|  |  |
|  | //checks for the server name and deletes it |
|  | while(fscanf(file, "\n NotesProgram= %s \n Directory= %s \n KitType= %i \n InstallType= %i \n PartitionNumber= %i \n showControllerStatusWindow= %i \n ServiceName= %s \n FaultRecovery\_Build= %s \n Timezone= %i \n DST= %i \n DSTLAW= %i \n FileDlgDirectory= %s \n", &cPrg[0], &cDir[0], &iKit, &iInstall, &iPNo, &iStatusWindow, &cService[0], &cRecovery[0], &iTimezone, &iDst, &iDstlaw, &cFiledir[0])!= EOF) |
|  | if(strcmp(checkId, cService)!=0) |
|  | fprintf(tempfile, "\n NotesProgram= %s \n Directory= %s \n KitType= %i \n InstallType= %i \n PartitionNumber= %i \n showControllerStatusWindow= %i \n ServiceName= %s \n FaultRecovery\_Build= %s \n Timezone= %i \n DST= %i \n DSTLAW= %i \n FileDlgDirectory= %s \n", cPrg, cDir, iKit, iInstall, iPNo, iStatusWindow, cService, cRecovery, iTimezone, iDst, iDstlaw, cFiledir); |
|  | fclose(file); |
|  | fclose(tempfile); |
|  | int isRemoved= remove("notes.ini"); |
|  | int isRenamed= rename("temp.ini", "notes.ini"); |
|  | cout<<"\nRemoved data Successfully\n"; |
|  | } |
|  | else |
|  | deleteConfig(); |
|  | } |
|  |  |
|  | public: |
|  | //options function, used to take specific requests from the user and perform accordingly |
|  | void options(void){ |
|  | while(true){ |
|  |  |
|  | cout<<"\n\t\t\t>>> Notes Config List <<<"; |
|  | cout<<"\n"; |
|  | cout<<"\n\t\t\t---------------------------"; |
|  | cout<<"\n\t\t\t 1: AddConfig"; |
|  | cout<<"\n\t\t\t---------------------------"; |
|  | cout<<"\n\t\t\t 2: listconfig"; |
|  | cout<<"\n\t\t\t---------------------------"; |
|  | cout<<"\n\t\t\t 3: editConfig"; |
|  | cout<<"\n\t\t\t---------------------------"; |
|  | cout<<"\n\t\t\t 4: deleteConfig"; |
|  | cout<<"\n\t\t\t---------------------------"; |
|  | cout<<"\n\t\t\t 0: To Exit "; |
|  | cout<<"\n\t\t\t---------------------------"; |
|  | cout<<"\n\n\t\t Please Enter Your Choice: "; |
|  |  |
|  | int choice; |
|  | cin>>choice; |
|  |  |
|  | switch (choice) { |
|  | case 0: |
|  | cout<<"\n\n Notes Domino List \n\n "; |
|  | return; |
|  | case 1: |
|  | addNotesInfo(); |
|  | break; |
|  | case 2: |
|  | listconfig(); |
|  | break; |
|  | case 3: |
|  | editExisting(); |
|  | break; |
|  | case 4: |
|  | deleteConfig(); |
|  | break; |
|  | default: |
|  | cout<<"\n Sorry! Invalid option!!! \n"; |
|  | break; |
|  | } |
|  | } |
|  | } |
|  | }; |
|  |  |
|  |  |
|  |  |
|  | int main(int argc,char \*argv[]){ |
|  | if(argc==2) |
|  | { |
|  | if(strcmp(argv[1],"-h")==0) //created a help command |
|  | { |
|  | cout<<"\n Usage of file --> \n" |
|  | "\t filename.exe & enter"<<endl<< |
|  | "\t -Program to perform filehandling in 'notes.ini' file. "<<endl<< |
|  | "\t -select an option from the list "<<endl<< |
|  | "\t -submit data based on the requirement "<<endl; |
|  | } |
|  | } |
|  | else |
|  | { |
|  | Notes n; |
|  | n.options(); |
|  | } |
|  | return 0; |
|  | } |