**package** com.caltech.projectphase1;

**import** java.io.IOException;

**import** java.util.Scanner;

**import** java.io.File;

**public** **class** Phase1 {

**static** **int** *choice*;

**static** String *choicesubmenu*;

**public** **static** **void** main(String[] args) **throws** Exception {

Scanner scanner = **new** Scanner(System.***in***);

Scanner scannersubmenu = **new** Scanner(System.***in***);

// Welcome message

// Developer details

System.***out***.println("WELCOME!");

System.***out***.println("APPLICVATION NAME: Phase 1 Project for PG in Full Stack Web Development");

System.***out***.println("APPLICATION CREATION DATE: 11 Jan 2023");

System.***out***.println("DEVELOPER: Wilson Chung Phengh Lee");

System.***out***.println("");

System.***out***.println("");

// use a while loop to keep requesting user input

**while** (**true**) {

//Asking user to make a choice for MAIN MENU

System.***out***.println("\*\*\*\*\*\*\* MAIN MENU \*\*\*\*\*\*\*\*\*");

System.***out***.println("Enter 1 for RETRIEVING file in ASCENDING order");

System.***out***.println("Enter 2 for FILE OPERATION");

System.***out***.println("Enter 3 for EXIT the application");

// User input the choice

*choice* = scanner.nextInt();

//Creating switch block for MAIN MENU

**switch** (*choice*) {

//Creating cases and calling methods as per the users choice

**case** 1:

//Instantiate the FileDisplay Class and create an object

FileDisplay FAscend = **new** FileDisplay();

//Call the FileAscending method in the FileDisplay Class

FAscend.FileAscending();

System.***out***.println("");

System.***out***.println("");

**break**;

**case** 2:

//Asking user to make a choice for MAIN MENU

System.***out***.println("\*\*\*\*\*\*\* SUB MENU \*\*\*\*\*\*\*\*\*");

System.***out***.println("Enter A for ADD a file to the directory");

System.***out***.println("Enter B for DELETE a file in the direcotry");

System.***out***.println("Enter C for SEARCH a file in the directory");

System.***out***.println("Enter D to EXIT sub-menu");

// User input the choice

*choicesubmenu* = scanner.next();

//Creating switch block

**switch** (*choicesubmenu*) {

//Creating cases and calling methods as per the users choice

**case** "A":

//create a file in a directory

//Instantiate the FileCreate Class and create an object

FileCreate Fcreate = **new** FileCreate ();

//Call the FileAscending method in the FileDisplay Class

Fcreate.FileMake();

System.***out***.println("");

System.***out***.println("");

**break**;

**case** "B":

//delete a file in a directory

//Instantiate the FileDelete Class and create an object

FileDelete Fdelete = **new** FileDelete();

//Call the FileAscending method in the FileDisplay Class

Fdelete.FileWriteOff();

System.***out***.println("");

System.***out***.println("");

**break**;

**case** "C":

//Search a file in a directory

//Instantiate the FileSearch Class and create an object

FileSearch Fsearch = **new** FileSearch();

//Call the FileLookup method in the FileSearch Class

Fsearch.FileLookup();

System.***out***.println("");

System.***out***.println("");

**break**;

**case** "D":

**break**;

**default**:

System.***out***.println("You have entered the wrong choice");

System.***out***.println("Please enter A or B or C or D\n");

}

**break**;

**case** 3:

System.***out***.println("You have existed the application. Bye!");

System.*exit*(0);

**break**;

**default**:

System.***out***.println("You have entered the wrong choice\n");

}

}

}

}