**import** java.io.File;

**import** java.util.Arrays;

**import** java.util.Scanner;

**public** **class** Main {

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

**static** File *file* = **new** File ("C:\\Users\\danie\\eclipse-workspace\\Simplilearn\\Files");

**static** String *listofFiles*[] = *file*.list();

**static** **boolean** *exit* = **true**;

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

**while**(*exit*) {

*showMenu*();

}

System.***out***.println(" Application closed! ");

}

/\*\*

\*

\* **@throws** Exception

\*/

**public** **static** **void** showMenu() **throws** Exception {

System.***out***.println("\*\*\*\*\*\*Simplilearn Assessment- Phase 1 \*\*\*\*\*\*\* \n \*\*\*\*\*\*Daniel Malkowski\*\*\*\*\*\* ");

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

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

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

System.***out***.println("Please choose one of the following options:");

System.***out***.println("1 : Add a file to directory");

System.***out***.println("2 : Remove a file from directory");

System.***out***.println("3 : Search a file from directory");

System.***out***.println("4 : Show all files in directory");

System.***out***.println("5 : Close the application ");

**int** input=*scanner*.nextInt();

*scanner*.nextLine();

**switch**(input) {

**case** 1 :

*useraddFile*();

**break**;

**case** 2 :

*del*();

**break**;

**case** 3 :

*search*();

**break**;

**case** 4 :

*listallfiles*();

**break**;

**case** 5 :

*exit*=**false**;

**break**;

**default** :

System.***out***.println("Invalid input , please choose options 1-4");

}}

/\*\*

\*

\* **@throws** Exception

\*/

**public** **static** **void** useraddFile() **throws** Exception {

System.***out***.println("Please add a file... : ");

String path = *scanner*.nextLine();

File ff = **new** File ("C:\\Users\\danie\\eclipse-workspace\\Simplilearn\\Files\\"+path);

**if**(!ff.exists()) {

**if**(ff.createNewFile()) {

System.***out***.println("File has been succesfully created!");

}

}

**else** {

System.***out***.println("Folder already exists");

}

*options*();

}

/\*\*

\*

\* **@throws** Exception

\*/

**public** **static** **void** options() **throws** Exception {

System.***out***.println("Return to main Menu ? y / n ");

String option = *scanner*.nextLine();

**if**(option.equalsIgnoreCase("y")) {

*showMenu*();

}**else** **if** (option.equalsIgnoreCase("n")) {

System.*exit*(0);

}**else** System.***out***.println("Invalid input, please choose y or n ! ");

*options*();

}

**public** **static** **void** listallfiles() **throws** Exception{

Arrays.*sort*(*listofFiles*);

**for**(String s :*listofFiles*) {

System.***out***.println(s);}

*options*();

}

**public** **static** **void** del() **throws** Exception {

System.***out***.println("Choose a file to delete");

String filetoDelete = *scanner*.nextLine();

File id= **new** File(*file* +"\\"+filetoDelete);

**if**(id.delete()) {

System.***out***.println("File succesfully deleted");

}**else** System.***out***.println("File not found or unvalid filename ");

*options*();

}

**public** **static** **void** search() **throws** Exception {

System.***out***.println("Enter name of the file to be found ");

String filename=*scanner*.nextLine();

**boolean** found = Arrays.*stream*(*listofFiles*).anyMatch(filename::equalsIgnoreCase);

**if**(found){

System.***out***.println("File found!");

} **else** System.***out***.println("File not found!");

*options*();

}

}