**package** lesson03.task316;  
  
  
**import** java.io.BufferedReader;  
  
**import** java.io.IOException;  
**import** java.io.InputStreamReader;  
**import** java.nio.charset.StandardCharsets;  
**import** java.nio.file.\*;  
**import** java.util.Collections;  
**import** java.util.List;  
  
**public class** Solution {  
  
 **public static void** main(String[] args) **throws** IOException{  
 String selectedOperation;  
 String fileName;  
  
 **try**(BufferedReader bf=**new** BufferedReader(**new** InputStreamReader(System.***in***))) {  
  
 **while** (**true**){  
 System.***out***.println(**"Enter number of operation or \"q\" for exit program"**);  
 System.***out***.println(**"\t 1-Read from file"**);  
 System.***out***.println(**"\t 2-Write to file"**);  
 System.***out***.println(**"\t 3-Append to file"**);  
  
 selectedOperation=bf.readLine();  
 **if** (selectedOperation.equals(**"q"**)) {  
 **break**;  
 }  
  
 **if** (!(selectedOperation.equals(**"1"**)  
 || selectedOperation.equals(**"2"**)  
 || selectedOperation.equals(**"3"**)))  
 {  
 System.***out***.println(**"Incorrect operation, try again"**);  
 **continue**;  
 }  
  
 System.***out***.println(**"Enter full path to file"**);  
 fileName=bf.readLine();  
 **switch** (selectedOperation){  
 **case "1"**: {  
 *readFromFileAndDisplayConsole*(fileName);  
 **break**;  
 }  
 **case "2"**: {  
 *writeToFile*(fileName,**"Writed string "**);  
 **break**;  
 }  
 **case "3"**: {  
 *appendToFile*(fileName, **"Appended string"**);  
 **break**;  
 }  
 }  
 }  
 }  
  
 System.***out***.println(**"\nThank you for using this program. Bye. \n"**);  
  
 }  
  
  
  
 **private static void** appendToFile(String fileName, String stringToAppend){  
  
 **try** {  
 Files.*write*(  
 Paths.*get*(fileName),  
 stringToAppend.getBytes(),  
 StandardOpenOption.***APPEND***);  
 } **catch** (IOException e) {  
 System.***out***.println(**"Error occurred: "**+e);  
 System.***out***.println(**"Try again"**);  
 }  
 System.***out***.println(**"Appending to file "**+fileName+**" successful \n"**);  
 }  
  
 **private static void** writeToFile(String fileName,String stringToWrite) {  
  
 **try** {  
 Files.*write*(Paths.*get*(fileName),stringToWrite.getBytes());  
 System.***out***.println(**"Writing to file "**+fileName+**" successful \n"**);  
 } **catch** (IOException e) {  
 System.***out***.println(**"Error occurred: "**+e);  
 System.***out***.println(**"Try again"**);  
 }  
 }  
  
 **private static void** readFromFileAndDisplayConsole(String fileName) {  
  
 System.***out***.println(**"\nReading from file "**+fileName+**" ...\n"**);  
  
 List<String> lines = Collections.*emptyList*();  
 **try** {  
 lines = Files.*readAllLines*(Paths.*get*(fileName), StandardCharsets.***UTF\_8***);  
 }  
 **catch** (IOException e)  
 {  
 System.***out***.println(**"Error occurred: "**+e);  
 System.***out***.println(**"Try again\n"**);  
 **return**;  
 }  
 lines.stream().forEach(System.***out***::println);  
 System.***out***.println(**"\nReading from file "**+fileName+**" successful\n"**);  
 }  
  
}