Mainmenu.java

```
package com;

import java.util.Scanner;

public class MainMenu {

	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
		int choice = 0;
		char letter;
		String input;
		String file;
		BusinessOperation bo = new BusinessOperation();
		System.out.println("Welcome to Virtual Key for Your Repositories program from Jan
Chochole (jan.chochole@vodafone.com)");
	do {
		System.out.println("Please make a choice:");
		System.out.println("1: Retrieving the file names in an ascending order   "+"2:
Business-level operations (add/delete/search file)   "+"3: Close program");
		input = sc.next();
		letter = input.charAt(0);
		choice = (int)letter;
		switch (choice) {
			case 49:
				System.out.printf("%nList of files: ");
				System.out.println(bo.print());
				break;
			case 50:System.out.println("Business menu");
				do {
					System.out.println("a: Add new file   "+"d: Delete file   "+"s:
Search file   "+"m:Go to prevorious menu");
					input = sc.next().toLowerCase();
					letter = input.charAt(0);
					choice = (int)letter;
					switch (choice) {
					case 97: System.out.print("Adding new file, please write the
name of file: ");
						file = sc.next().strip().toLowerCase();
						System.out.println(bo.add(file));
						break;
					case 100: System.out.printf("!!!Removing file!!!%nWhat do
want delete? ");
						file = sc.next().strip().toLowerCase();
						System.out.println(bo.remove(file));
						break;
					case 115: System.out.printf("Searching file...%nWhat do you
want find? ");
						String search = sc.next().strip().toLowerCase();
						System.out.println(bo.search(search).toLowerCase());
						break;
					case 109:
						break;
					default: System.out.println("Bad choice, please select A for
add, D for delete, S for search and M to prevorious menu");
						break;
					}
```

```
                                System.out.printf("%n");
                        } while (choice!=109);
                        break;
                case 51:System.out.println("Thank you and bye!");
                        break;
                default:
                        System.out.println("Bad choice, please select from range 1 - 3.");
                        break;
                }


        System.out.printf("%n");
        }
        while (choice!=51);
    sc.close(); //close the scanner
    }
}
```

BusinessOperation.java

```
package com;

import java.util.Iterator;
import java.util.TreeSet;

public class BusinessOperation {
	private TreeSet<String> ts = new TreeSet<>();
	String message;


	public BusinessOperation() {
		super();
//		ts.add("a.txt");
//		ts.add("aa.txt");
//		ts.add("b.txt");
//		ts.add("baba.pdf");
//		ts.add("babo.xls");
	}

	public String add(String file) {
		if (ts.isEmpty()) {
			ts.add(file);
			message = "File "+file+"was added";
		} else {
			if (ts.contains(file)) {
				message = "File exist, you can't add this "+file.toUpperCase();
			} else {
				ts.add(file);
				message = "File "+file+"was added";
			}
		}
		return message;

	}

	public String print() {
		if (ts.isEmpty()) {
			return "No files";
		} else {
			return ts.toString();
		}
	}

	public String remove(String file) {
		if (ts.contains(file)) {
			ts.remove(file);
			return "File was deleted.";
		} else {
			return "File not found!";
		}
	}

	public String search(String search) {
		Iterator<String> ii = ts.iterator();
		TreeSet<String> tsTemp = new TreeSet<>();
```

```
		while (ii.hasNext()) {
			String word = ii.next();
			if (word.toLowerCase().contains(search)) {
				tsTemp.add(word);
			}
		}
		return tsTemp.toString();
	}
}
```