VIRTUAL KEY FOR YOUR REPOSITORIES

SOURCE CODE:

Java Project name: VirtualKeyApplication

VirtualKey.java

```
public class VirtualKey{
	public static void main(String[] args)
	{
		System.out.println("VIRTUAL KEY FOR YOUR REPOSITORIES...!");
		System.out.println("Developer: Venkata Padmini Bollineni");
		Mainmenu m=new Mainmenu();
		m.mainmenu();
	}
}
```

Mainmenu.java

```
import java.io.File;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Scanner;

public class Mainmenu {

	private ArrayList<File> filelist = new ArrayList<>();
	String filepath="C:\\Users\\vbollineni\\Desktop\\files";
	public void mainmenu()
	{
		System.out.println();
		System.out.println("1.Retrieve Files");
		System.out.println("2.File Operations");
		System.out.println("3.Exit application");
		System.out.println(“Choose the option you want:”);
```

```
            Scanner sc=new Scanner(System.in);
            int n=sc.nextInt();
            switch(n)
            {
                  case 1:
                        this.retrievefiles();
                        break;
                  case 2:
                        Submenu s=new Submenu();
                        s.submenu();
                        break;
                  case 3:
                        System.exit(0);
                  default:
                        System.out.println("Invalid Input");
            }
   }
   private void retrievefiles() {
            ArrayList<File> files = this.getfiles();
            Collections.sort(files);
            System.out.println("List of files/folders in the specified directory:");
            for(File f:files)
{
   System.out.println(f.getName());
}
   }
   public ArrayList<File> fillfiles() {

            File file = new File(filepath);
            File flist[]=file.listFiles();
```

```
                filelist.clear();
                for (int i = 0; i < flist.length; i++) {
                if (flist[i].isFile()) {
                        filelist.add(flist[i]);
                }
                }
           return filelist;
        }
        public ArrayList<File> getfiles() {

                fillfiles();
                return filelist;
          }
}
```

Submenu.java

```
import java.io.File;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Scanner;

public class Submenu {
        Mainmenu m=new Mainmenu();
        Scanner sc=new Scanner(System.in);
        String filepath="C:\\Users\\vbollineni\\Desktop\\files";
        public void submenu() {
                int y;
                do {
                        System.out.println("File Operations:");
                        System.out.println("  1.Add File");
```

```
                System.out.println("  2.Delete File");
                System.out.println("  3.Search File");
                System.out.println("  4.Main menu");
                int option=sc.nextInt();
                switch(option)
                {
                        case 1:
                                addfile();
                                break;
                        case 2:
                                deletefile();
                                break;
                        case 3:
                                searchfile();
                                break;
                        case 4:
                                //Mainmenu m=new Mainmenu();
                                m.mainmenu();
                                break;
                        default:
                   System.out.println("Invalid Input");
                   break;
                }
                System.out.println("Do you want to Continue..? Press 1/0");
                y=sc.nextInt();
        }while(y==1);
}
private void searchfile() {
        Mainmenu m=new Mainmenu();
        Boolean found = false;
```

```
            System.out.println("Enter File name to search:");
            String fname=sc.next();
            File file = new File(filepath);
            ArrayList<File> files = m.getfiles();
            for(int i = 0; i < files.size(); i++) {
                    if(files.get(i).getName().equals(fname)) {
                            System.out.println("File found at " + file.getAbsolutePath());
                            found = true;
                            break;
                    }
}
if (found == false) {
   System.out.println("File Not Found");
}

   }
   private void deletefile() {
            System.out.println("Enter File name you want to delete:");
            String name=sc.next();
            File file = new File(filepath+"\\"+name);
            try
            {
                    System.out.println("File exists: " + file.exists());
                    if(file.delete())
                    {
                            System.out.println(file.getName() + " deleted successfully");
                            m.getfiles().remove(file);
                    }
                    else
                    {
```

```
                        System.out.println("File Not Found");
                    }
                }
                catch(Exception e)
                {
                    e.printStackTrace();
                }

            }
            private void addfile() {
                System.out.println("Enter File name to add:");
                String name=sc.next();
                boolean res;
                File file = new File(filepath+"\\"+name);
                try {
                    res=file.createNewFile();
                    if(res)
                    {
                        System.out.println("File added to "+file.getCanonicalPath());
                        m.getfiles().add(file);
                    }
                    else
                    {
                        System.out.println("File already exist at location:
"+file.getCanonicalPath());
                    }
                } catch (IOException e) {
                    e.printStackTrace();
                }
            }
```

}