```java
package module1_1;
import java.nio.file.DirectoryStream;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.Paths;
import java.nio.file.attribute.BasicFileAttributes;
import java.util.Scanner;
import java.io.File;



public class ListTree {

    static File directory=null;
    static int fileCount;//=directory.list().length;

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

        Scanner myObj = new Scanner(System.in);  // Create a Scanner object
        System.out.println("Enter file path: ");

        String userInput = myObj.nextLine();  // Read user input

        Path currentPath = Paths.get(userInput);

        listDir(currentPath, 0, userInput);

    }

    public static void listDir(Path path, int depth, String pathStr) throws
Exception {

        BasicFileAttributes attr = Files.readAttributes(path,
BasicFileAttributes.class);

        //if directory, list the files, and traverse down inside each of those
        if (attr.isDirectory()) {

            DirectoryStream<Path> paths = Files.newDirectoryStream(path);

            directory = new File(pathStr);
            fileCount = directory.list().length;

            System.out.println(spacesForDepth(depth) + " > " +
path.getFileName() + " (Number of files/directories:  " + fileCount + ", Folder Size:
" + folderSize(directory) + ")");

                for(Path tempPath: paths) {
                    listDir(tempPath,depth + 1, tempPath.toString());
                }

        } else {

            directory = new File(pathStr);
```

```java
                    System.out.println(spacesForDepth(depth) + " - - " +
    path.getFileName() + " (File Size: " + directory.length() + ")");
                }

        }

        //Depth setter for printing
        public static String spacesForDepth(int depth) {
                StringBuilder builder = new StringBuilder();
                for(int i= 0; i < depth; i++) {
                        builder.append("  ");
                }
                return builder.toString();
        }


        //Recursion algorithm I found to help find directory sizes

        public static long folderSize(File directory) {
            long length = 0;
            for (File file : directory.listFiles()) {
                if (file.isFile())
                    length += file.length();
                else
                    length += folderSize(file);
            }
            return length;
        }

}
```

```
Enter file path:
C:\Program Files\Google
 > Google (Number of files/directories:  1, Folder Size: 644715297)
    > Chrome (Number of files/directories:  3, Folder Size: 644715297)
       > Application (Number of files/directories:  6, Folder Size: 641507849)
          > 113.0.5672.93 (Number of files/directories:  32, Folder Size: 636716689)
             - - 113.0.5672.92.manifest (File Size: 226)
             - - 113.0.5672.93.manifest (File Size: 226)
             - - chrome.dll (File Size: 212888344)
             - - chrome.dll.sig (File Size: 1427)
             - - chrome.exe.sig (File Size: 1427)
             - - chrome_100_percent.pak (File Size: 671369)
             - - chrome_200_percent.pak (File Size: 1055462)
             - - chrome_elf.dll (File Size: 1348376)
             - - chrome_pwa_launcher.exe (File Size: 1741080)
             - - chrome_wer.dll (File Size: 124696)
             - - d3dcompiler_47.dll (File Size: 4916712)
             > default_apps (Number of files/directories:  1, Folder Size: 291)
                - - external_extensions.json (File Size: 291)
             - - elevation_service.exe (File Size: 1740056)
             - - eventlog_provider.dll (File Size: 17176)
             > Extensions (Number of files/directories:  1, Folder Size: 99)
                - - external_extensions.json (File Size: 99)
             - - icudtl.dat (File Size: 10544880)
             > Installer (Number of files/directories:  3, Folder Size: 325675445)
                - - chrmstp.exe (File Size: 5155608)
                - - chrome.7z (File Size: 315364229)
                - - setup.exe (File Size: 5155608)
```

```
        - - libEGL.dll (File Size: 485656)
        - - libGLESv2.dll (File Size: 7335192)
        > Locales (Number of files/directories:  55, Folder Size: 30000931)
          - - af.pak (File Size: 376817)
          - - am.pak (File Size: 613129)
          - - ar.pak (File Size: 676044)
          - - bg.pak (File Size: 698678)
          - - bn.pak (File Size: 898331)
          - - ca.pak (File Size: 433082)
          - - cs.pak (File Size: 435363)
          - - da.pak (File Size: 399878)
          - - de.pak (File Size: 432298)
          - - el.pak (File Size: 766222)
          - - en-GB.pak (File Size: 345239)
          - - en-US.pak (File Size: 348140)
          - - es-419.pak (File Size: 421666)
          - - es.pak (File Size: 422040)
          - - et.pak (File Size: 382295)
          - - fa.pak (File Size: 622353)
          - - fi.pak (File Size: 388300)
          - - fil.pak (File Size: 439439)
          - - fr.pak (File Size: 459376)
          - - gu.pak (File Size: 882791)
          - - he.pak (File Size: 547484)
          - - hi.pak (File Size: 934099)
          - - hr.pak (File Size: 422747)
          - - hu.pak (File Size: 456537)
          - - id.pak (File Size: 374170)
```

```
- - it.pak (File Size: 421836)
- - ja.pak (File Size: 512250)
- - kn.pak (File Size: 1006970)
- - ko.pak (File Size: 427999)
- - lt.pak (File Size: 459125)
- - lv.pak (File Size: 457436)
- - ml.pak (File Size: 1051511)
- - mr.pak (File Size: 862576)
- - ms.pak (File Size: 390603)
- - nb.pak (File Size: 383860)
- - nl.pak (File Size: 395713)
- - pl.pak (File Size: 441273)
- - pt-BR.pak (File Size: 414981)
- - pt-PT.pak (File Size: 417884)
- - ro.pak (File Size: 430164)
- - ru.pak (File Size: 699692)
- - sk.pak (File Size: 441749)
- - sl.pak (File Size: 426723)
- - sr.pak (File Size: 656509)
- - sv.pak (File Size: 385603)
- - sw.pak (File Size: 404092)
- - ta.pak (File Size: 1040496)
- - te.pak (File Size: 961969)
- - th.pak (File Size: 808628)
- - tr.pak (File Size: 412902)
- - uk.pak (File Size: 700669)
- - ur.pak (File Size: 614168)
- - vi.pak (File Size: 488654)
```

```
  - - zh-CN.pak (File Size: 355207)
  - - zh-TW.pak (File Size: 353171)
> MEIPreload (Number of files/directories:  2, Folder Size: 8492)
  - - manifest.json (File Size: 238)
  - - preloaded_data.pb (File Size: 8254)
- - mojo_core.dll (File Size: 1900824)
- - nacl_irt_x86_64.nexe (File Size: 4326864)
- - notification_helper.exe (File Size: 1347864)
- - optimization_guide_internal.dll (File Size: 2714392)
- - resources.pak (File Size: 8009012)
- - v8_context_snapshot.bin (File Size: 689128)
> VisualElements (Number of files/directories:  8, Folder Size: 142362)
  - - Logo.png (File Size: 28131)
  - - LogoBeta.png (File Size: 24214)
  - - LogoCanary.png (File Size: 28016)
  - - LogoDev.png (File Size: 24504)
  - - SmallLogo.png (File Size: 9938)
  - - SmallLogoBeta.png (File Size: 8859)
  - - SmallLogoCanary.png (File Size: 9741)
  - - SmallLogoDev.png (File Size: 8959)
- - vk_swiftshader.dll (File Size: 5088024)
- - vk_swiftshader_icd.json (File Size: 106)
- - vulkan-1.dll (File Size: 934680)
> WidevineCdm (Number of files/directories:  3, Folder Size: 13005870)
  - - LICENSE (File Size: 473)
  - - manifest.json (File Size: 938)
  > _platform_specific (Number of files/directories:  1, Folder Size: 13004459)
    > win_x64 (Number of files/directories:  2, Folder Size: 13004459)
      - - widevinecdm.dll (File Size: 13003032)
      - - widevinecdm.dll.sig (File Size: 1427)
  - - chrome.exe (File Size: 3169560)
  - - chrome.VisualElementsManifest.xml (File Size: 410)
  - - chrome_proxy.exe (File Size: 1151768)
  - - master_preferences (File Size: 469422)
  > SetupMetrics (Number of files/directories:  0, Folder Size: 0)
> ChromeRecovery (Number of files/directories:  0, Folder Size: 0)
> Temp (Number of files/directories:  1, Folder Size: 3207448)
  > scoped_dir13404_1130731941 (Number of files/directories:  1, Folder Size: 3207448)
    - - old_chrome.exe (File Size: 3207448)
```