

```
public class CheckHMtypeAndRunCompiler-> public void run
```

פונקציה מקבלת רשימת student (ref) ומשתנים string שיכולות:

השפה (Python /Java /C), נתיב input, נתיב output, נתיב לתיקיית העבודות של הסטודנטים.

```
public static class CodeChecker-
```

A static class that can be accessed to compile the code and change options for compiler version/timeout. The TCC (the compiler we use, Tiny C Compiler, may not support all known c libraries and better not count on it for threading, unless you're willing to tweak the compiler so it will.

Checking C file compiling.

```
class ExtracttoPath-
```

The method takes in two string parameters, extracttopathh and txtArchivePath. The first parameter extracttopathh is the directory path where the archive will be extracted to. The second parameter txtArchivePath is the file path of the archive that needs to be extracted. The method assigns the txtArchivePath to a variable called zipPath and extractPath to variable extractPath . Then it uses the static method ZipFile.ExtractToDirectory(zipPath, extractPath) method to extract the contents of the archive located at the file path specified by zipPath to the directory specified by extractPath.

```
class filescomparer-
```

checkifallfilesexist() method takes in two parameters, folderpath and expectedfiles. The first parameter folderpath is a string that represents the directory path of the folder that needs to be checked for the presence of certain files. The second parameter expectedfiles is a list of strings that represent the names of the files that are expected to be present in the specified folder. The method assigns a hardcoded folder path to a variable called folderPath and an array of hardcoded expected file names to a variable called expectedFileNames. Then it uses the Directory.GetFiles() method to get an array of all the file names in the specified folder path, and uses the Select() and ToArray() methods to create an array of the actual file names. The method then checks if the actualFileNames array is equal to the expectedFileNames array using the SequenceEqual() method. If the arrays match, it writes a message to the console indicating that all file names match the expected list. If the arrays do not match, it writes a message to the console indicating that not all file names match the expected list.

```
class jarfilesfromZip-> public void extractjar(string path)
```

This method is useful for extracting the contents of a JAR file(which is a ZIP archive in itself) and viewing the names of the files contained within it.

```
public class JavaCompiler-
```

Checking Java file compiling.

```
public class PythonCompiler-
```

Checking Python file compiling.

```
public static class ZipArchiveHandler
```

This funtion extracts .c, .h and .exe files from an archive file and saves their paths in a SingleSubmission. zipFile is the zip path.isMasterZipDirectory indicates whether it's the master or inner (Zip in a zip) zip directory.