**Build/Installation Instructions**

**Scope:** The “Menu() class of the java program is converted into a .jar file, which is then converted into an executable file using Advanced Installer. The program can be run either from cloning the project from github or directly running the executable.

**Required files:** <https://drive.google.com/open?id=10U1H3ETCvoJHD5TiQHeBzgFdB-YyMx8w>

(this will be used for steps 4 & 5 in the steps below)

**Steps for Build from Github:**

1. Open a new window in IntelliJ and go to VCS >> Get Version Control. Enter the following into the URL box and click Clone >> <https://github.com/The60th/CS370-Cycle-One-Team-6.git>
2. Go to File >> Project Structure >> Project >> Project SDK and ensure Project language level is at 8.
3. Go to File >> Settings >> Build, Execution, Deployment >> Java Compiler >> and check that the target bytecode version for the module is set at 8.
4. Go to File >> Project Structure >> Libraries >> + (above maven) >> Java >> and select the required file that was noted above
5. Go to File >> Project Structure >> Modules >> + (on the far right hand side) >> Libraries>> Java >> and select the required file that was noted above.
6. Change Lines 18 through 23 to the following-

//for(int i = 0; i < fileName.length(); i++){

//if(fileName.substring(fileName.length()-(i+9), fileName.length()-(i)).equals("basic\_vm\\")){

fileName = fileName.substring(0, fileName.length()-14);

//break;

// }

// }

1. Build the Project and Run it. The full program and its assets will run

**Creation of the .jar**

1. Go to File >> Project Structure >>Artifacts>> + >> JAR>> From module with Dependencies>>Main Class>> Menu (menu)
2. After clicking apply, go to Build >> Build Artifacts >>Build. The .jar file will be located in out >> artifacts within the project structure.

**Running the .jar**

1. Within intellij, go to the ‘out’ folder >> ‘artifacts’ >> ‘basic\_vm\_jar’. Copy the absolute file path from the folder
2. Open command prompt as an administrator and enter ‘cd /’
3. Enter ‘cd’ followed by the copied file path
4. Enter ‘java -jar basic\_vm.jar’ . The .jar will run.

**Creation of the exe**

1. Using Advanced Installer, create a new java application and add all files that are associated with the java projects.
2. Add the associated jar and java version type required
3. Build and Run to create the .exe and .msi

**Steps for Installation of Executable.**

1. Go to the following link and download the executable.

<https://drive.google.com/open?id=1hUYMS1Ie6C0n4jxJUE3sc0JZunIwS9sn>

1. Follow the steps in the wizard to install the executable file and run it on your system.