Annexure-V- Cover Page for Academic Tasks

Course Code: INT301		**Course Title: Open Source Technologies**
Course Instructor: Dr. Manjot Kaur		
Academic Task No. : 3		**Academic Task Type: Assignment - Project Based**
Date of Allotment: 08-02-2023		**Date of submission: 08-04-2023**
Student's Roll no: RKE015A07	**Student's name: Arka Raha**	**Student's Reg. no: 11904698**
Evaluation Parameters: (Parameters on which student is to be evaluated- To be mentioned by students as specified at the time of assigning the task by the instructor)		

Learning Outcomes: (Student to write briefly about learning's obtained from the academic tasks)

Declaration:

I declare that this Assignment is my individual work. I have not copied it from any other student's work or from any other source except where due acknowledgement is made explicitly in the text, nor has any part been written for me by any other person.

Student's Signature:

Arka Raha

Evaluator'scomments (For Instructor's use only)

General Observations	Suggestions for Improvement	Best part of assignment

Evaluator's Signature and Date:

Marks Obtained: _____ Max. Marks: _____

Table of Content

Introduction

1.1 Objective of the project

The objective of the project is to utilize an open-source software application to extract and present system information from a Windows operating system. The information extracted will include the Windows product key and ID, a comprehensive list of installed software, and all currently running processes. The task also involves creating a simple text file to save the generated report for documentation or troubleshooting purposes.

The aim of this objective is to provide an accurate representation of the current state of the system, and to help in identifying and diagnosing any issues or discrepancies that may arise. By gathering information about the Windows product key and ID, installed software, and running processes, this task will enable IT professionals, system administrators, and end-users to identify and resolve any performance or security issues on their system. Additionally, by creating a simple text file to save the generated report, users can maintain a record of the system's configuration for future reference, auditing, or compliance purposes.

Overall, the objective of the task is to use an open-source system information utility to extract essential system data and present it in a clear and concise manner, providing users with the necessary information they need to troubleshoot, optimize and maintain their Windows operating system.

1.2 Description of the project

The project involves utilizing an open-source software application to extract and present system information from a Windows operating system. The goal is to gather critical information, including the Windows product key and ID, a comprehensive list of installed software, and all currently running processes. This information will be presented in a clear and concise manner, enabling users to identify and diagnose any performance or security issues on their system.

The project will require the use of an open-source system information utility, such as System Information for Windows (SIW), which will provide a detailed overview of the system's configuration. The utility will be used to extract essential system data, including hardware and software components, network settings, and other system parameters.

The generated report will be saved in a simple text file, providing users with a record of the system's configuration for future reference, auditing, or compliance purposes. The text file will contain a summary of the system information, including the Windows product key and ID, list of installed software, and all currently running processes.

Overall, the project aims to provide users with a comprehensive overview of their system's configuration, enabling them to identify and resolve any performance or security issues. By utilizing an open-source system information utility and saving the generated report in a text file, users can maintain a record of their system's configuration and have access to critical information for troubleshooting, optimizing, and maintaining their Windows operating system.

1.3 Scope of the project

- The scope of the project includes utilizing an open-source system information utility to extract and present critical system information from a Windows operating system. The scope of this project does not involve modifying or changing any system configurations or settings.

- The project will include extracting the Windows product key and ID, a comprehensive list of installed software, and all currently running processes. The generated report will be saved in a simple text file format.

- The project's scope does not include providing any analysis or recommendations for system optimization or security enhancement. It is solely focused on providing an accurate representation of the current state of the system, enabling users to identify and diagnose any performance or security issues.

- The project's scope also does not include the installation or deployment of any additional software or hardware components. It is solely focused on utilizing the existing system information utility to extract and present critical system information.

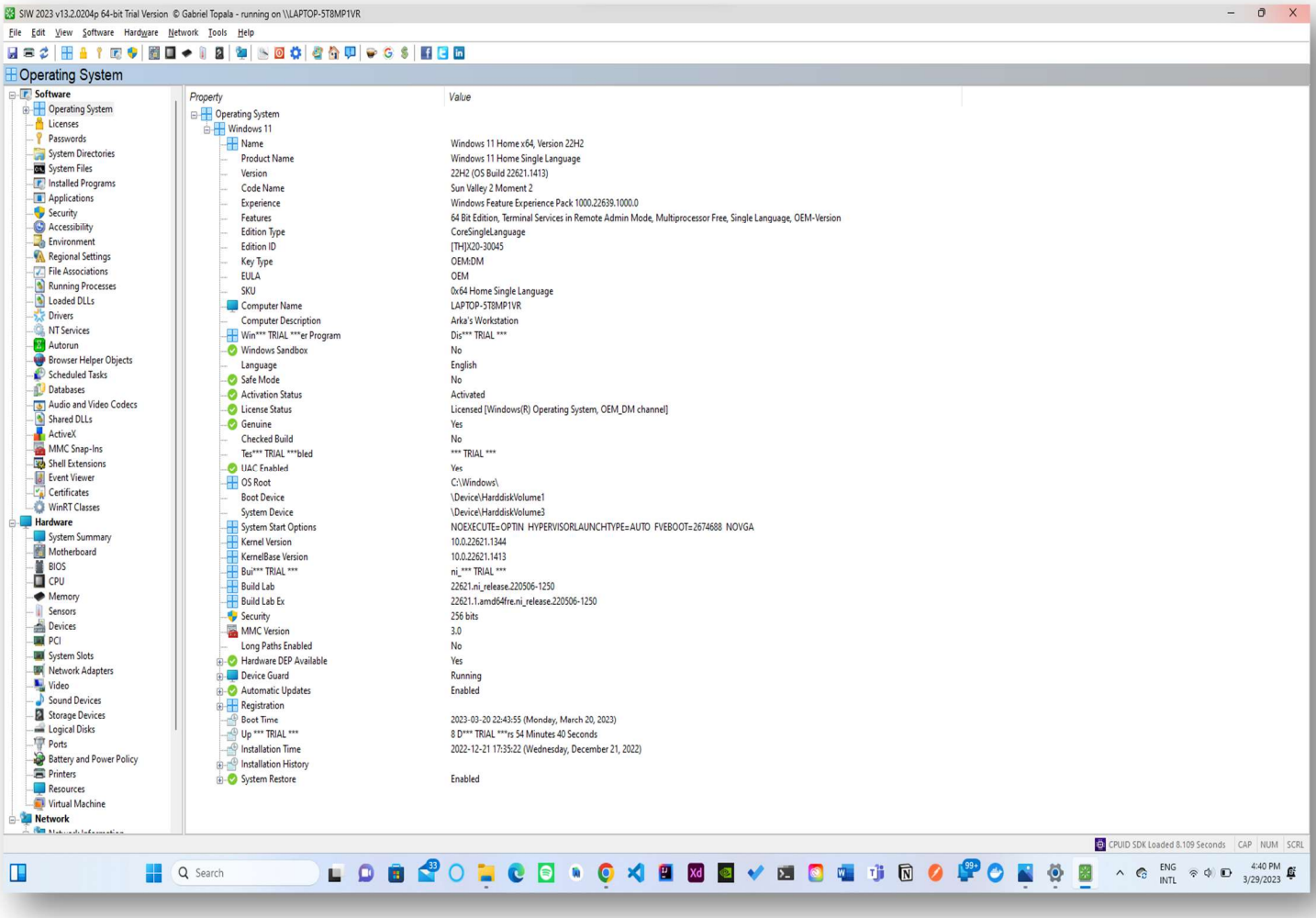
- Overall, the scope of the project is limited to providing users with a comprehensive overview of their system's configuration, enabling them to troubleshoot, optimize and maintain their Windows operating system.

System Description

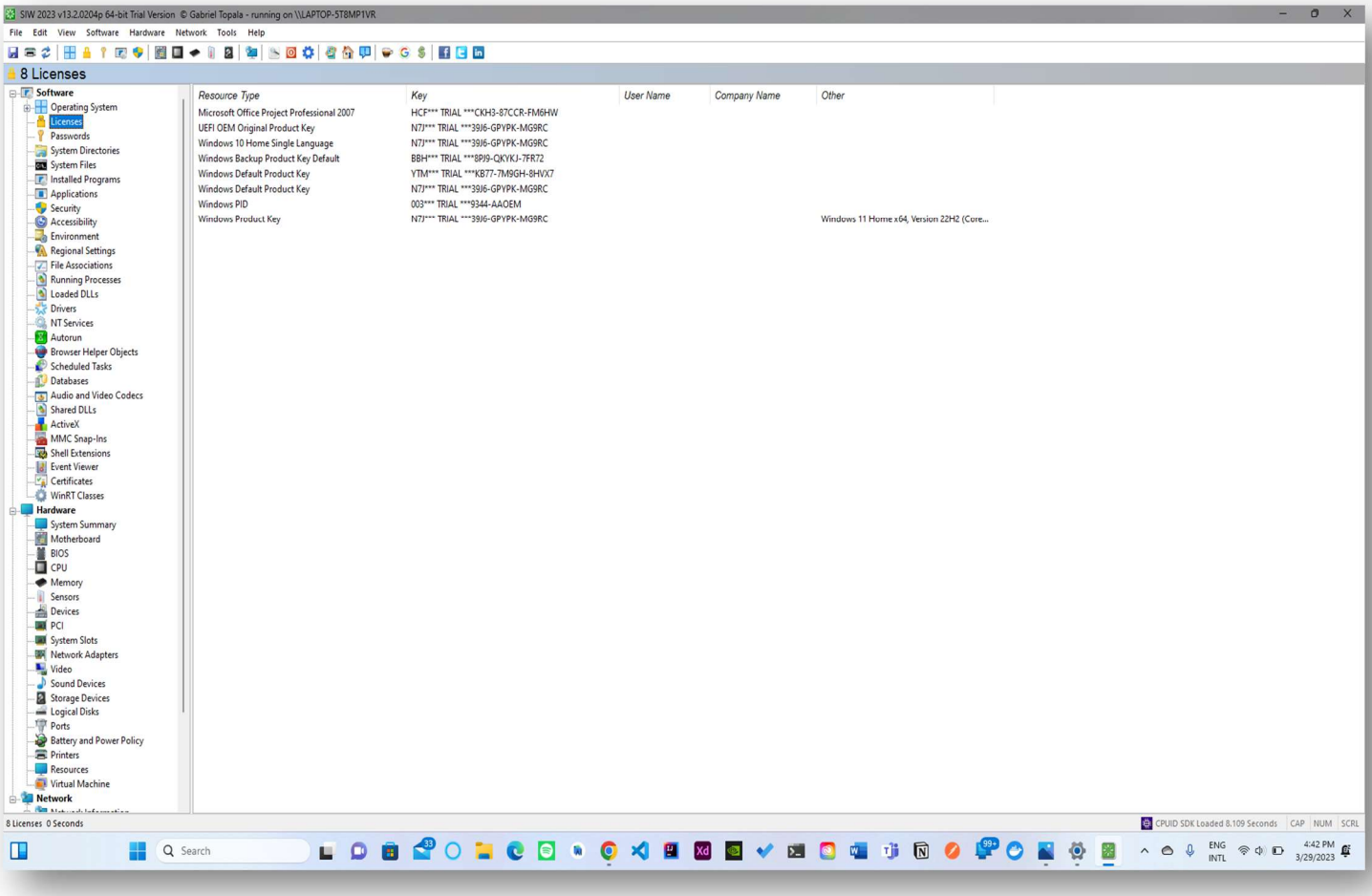
- In this project we have accumulated all the system description in text file which is done by the open source software itself as a requirement for the project. In this case I will push the .txt file in GitHub and sharing the link will provide sufficient data for the above chapter.

GitHub Link: https://github.com/softdevarka/CA3-INT301-DOC/blob/main/SIW_LAPTOP-5T8MP1VR_20230329_165202.txt

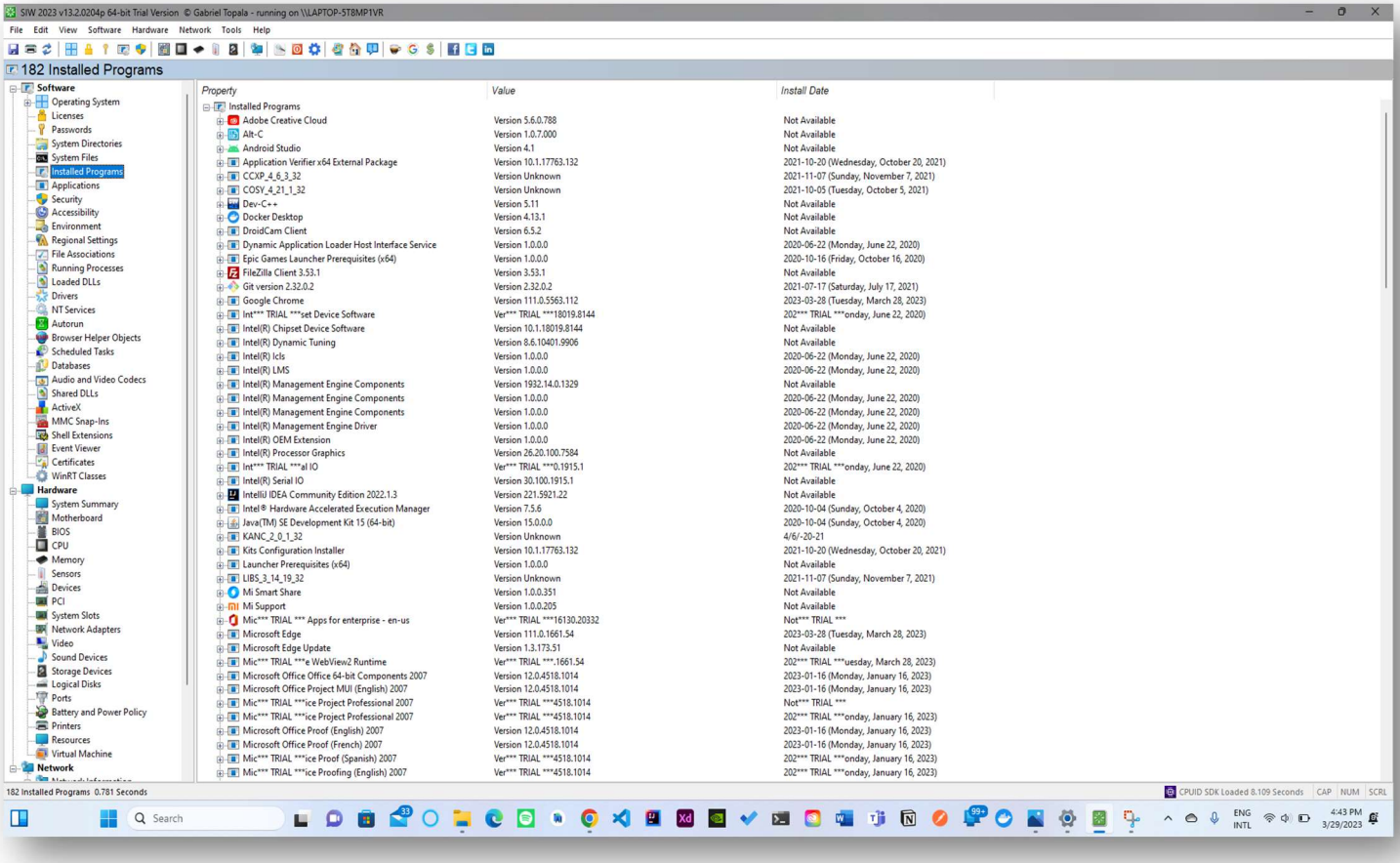
Snapshots (Analysis Description)



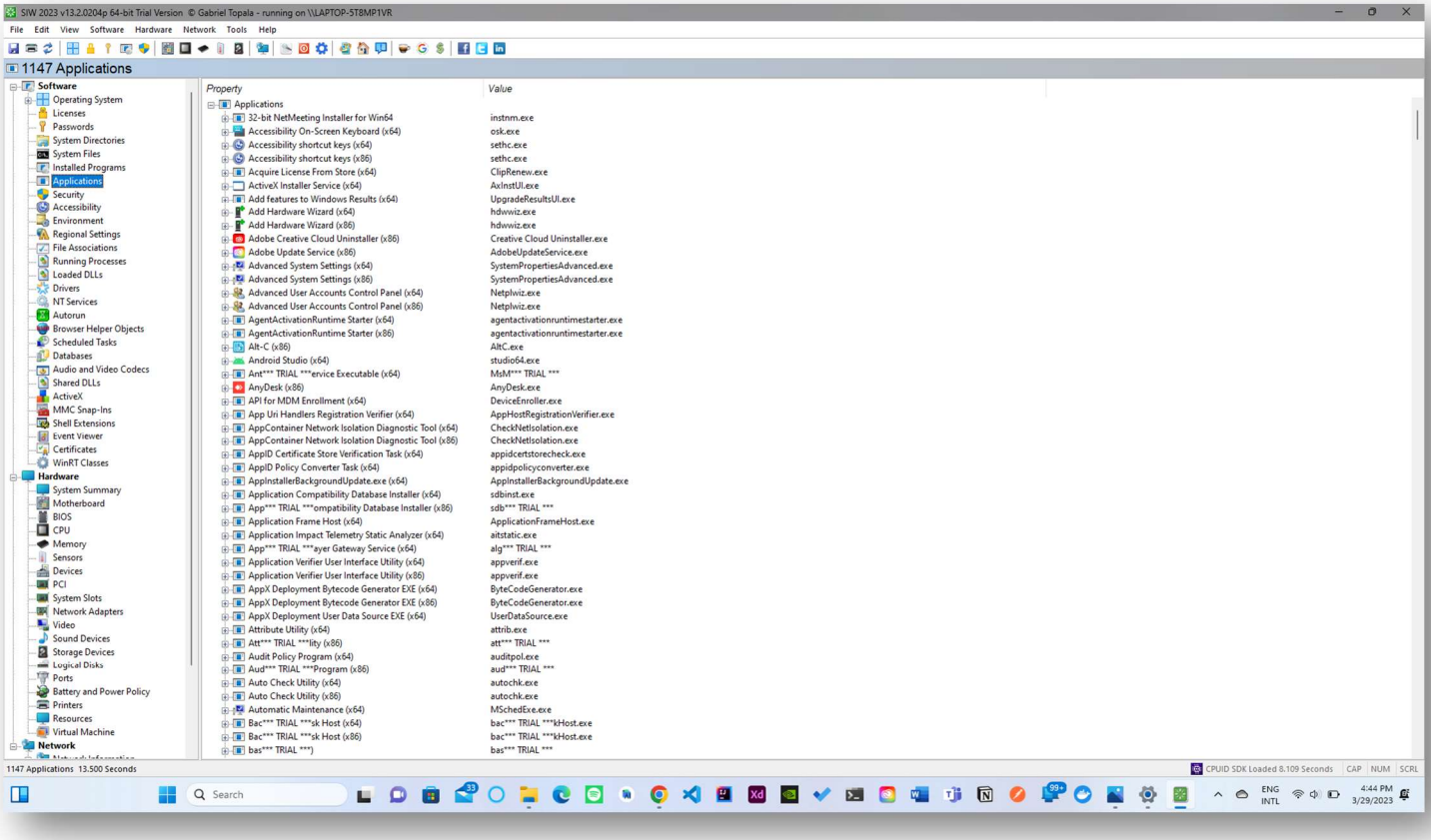
1. This Portion is showing one of the major system info. Utility. In this section we can see which operating we are using, what is the version of the OS, what is the features, etc.



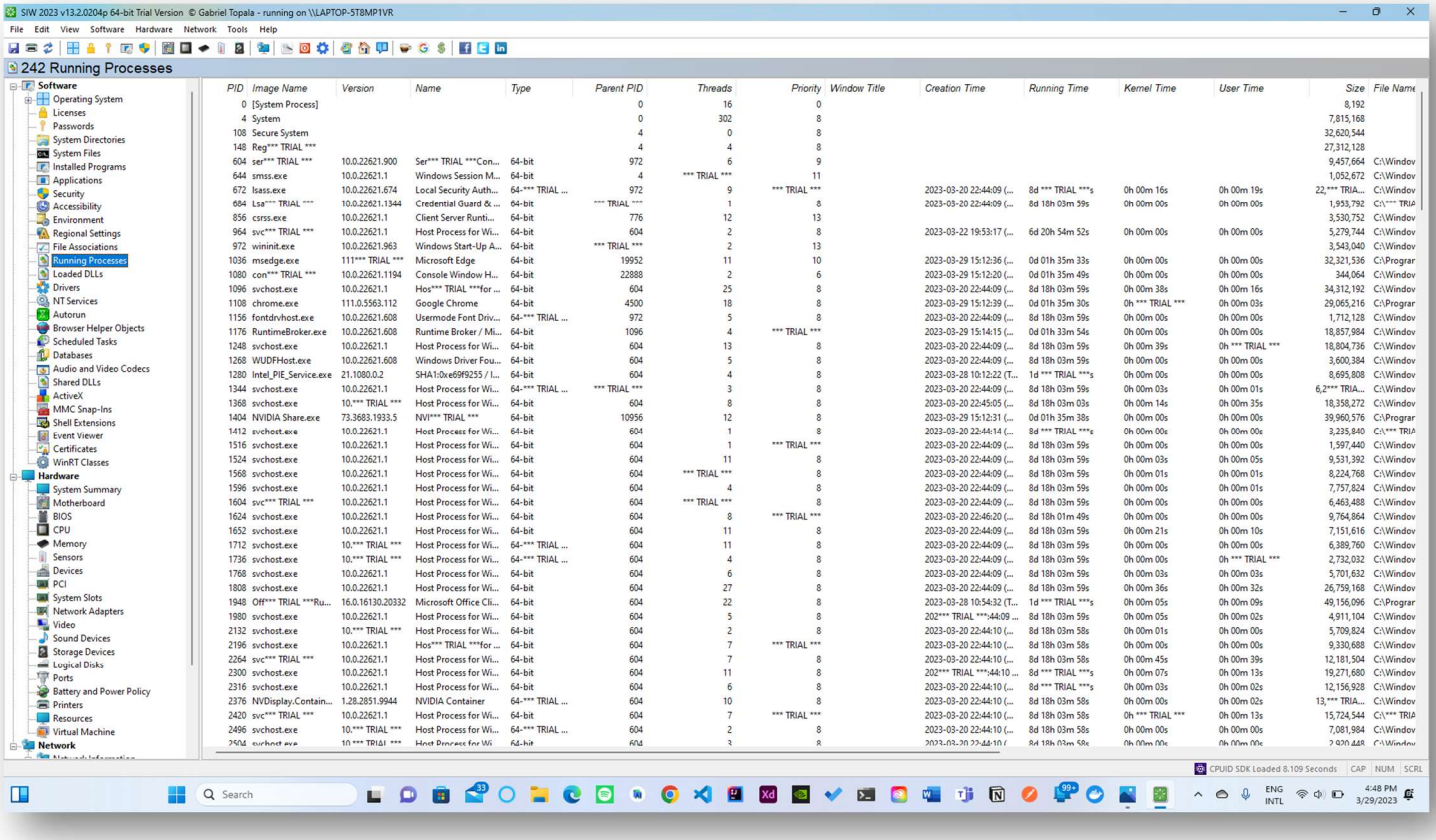
2. Now as per project's task we are displaying the windows product key here by clicking on the licenses tab to view my windows product key and id.



3. Now here we are provinding with list of installed software on the system. Clicking on the "Software" tab to view a list of installed software.



4. Application Installed



5. Now by clicking on the "Processes" tab to view all the currently running processes as requirement task for this project.

6. And the last task to save the report in text file by clicking on the "File" menu, and select "Save As". Choose a location and filename for the text file, and select "Text File (*.txt)" as the file type. Click "Save" to save the report in the specified location. And the text file containing all the system information has been uploaded to GitHub.

GitHub Link for the above project: https://github.com/softdevarka/CA3-INT301-DOC

Reference

[1]. https://www.gtopala.com/siw/software.php (This is official documentation for the siw software).

[2]. https://www.makeuseof.com/tag/list-installed-programs-windows/

[3]. https://www.gtopala.com/siw/software.php#licenses

[4]. https://www.medium.com