

Assignment No – 1

Software Engineering Tools Lab

(Module 1- Introduction to OSS)

Name : - Udaykumar Gadikar

PRN :- 2019BTECS00090

Batch : - T8

Question 1. Weka is a GUI workbench that empowers data wranglers to assemble machine learning pipelines, train models, and run predictions without having to write code. Using Weka tool perform below tasks such as data preprocessing, data classification (use any appropriate ML algorithm) and data visualization efficiently on given dataset. Use the Iris dataset given :

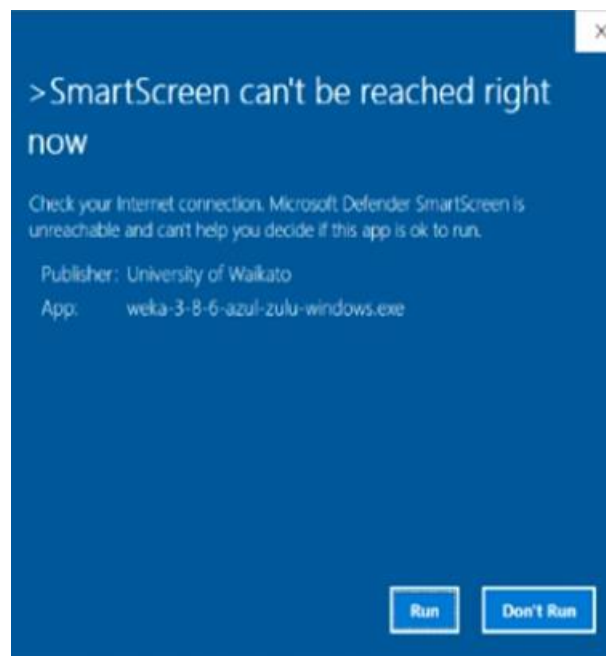
<https://drive.google.com/file/d/1A3Fxsfm6BSfhFZGDrjI47RTe45bSgYP/view>

Note-provide screen shots for every task Create a report which will illustrate the details of tasks performed (for e.g to perform preprocessing of data provide details of navigation and selection of appropriate parameters)

Answer :

1.INSTALLATION OF WEKA

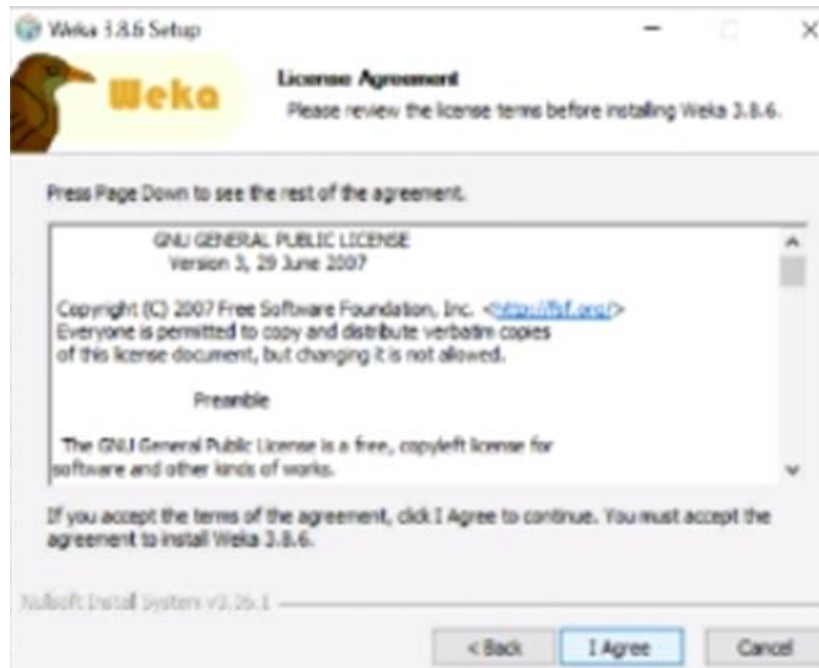
STEP 1- DOWNLOAD AND RUN :



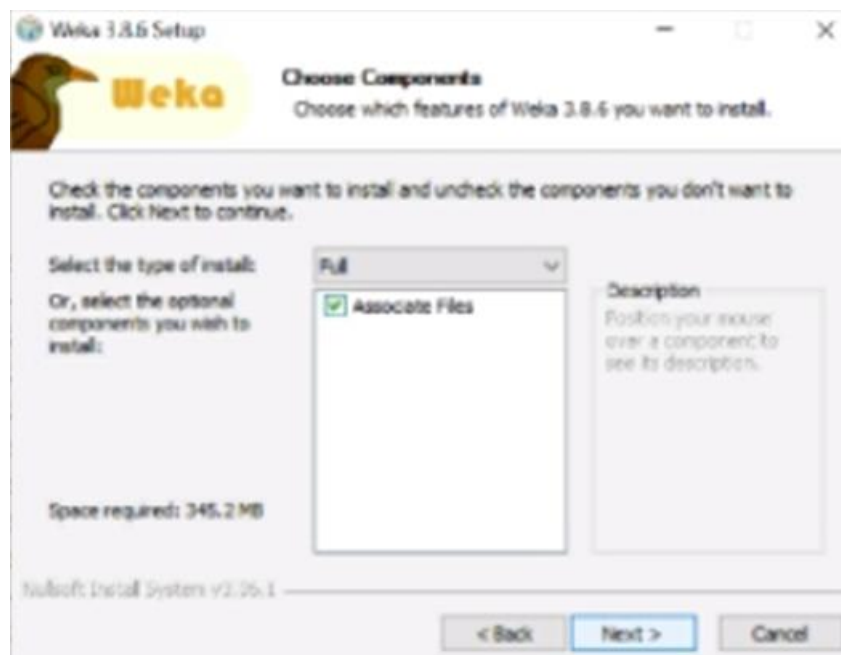
STEP 2- SETUP WIZARD :



STEP 3- LICENCE AGREEMENT :

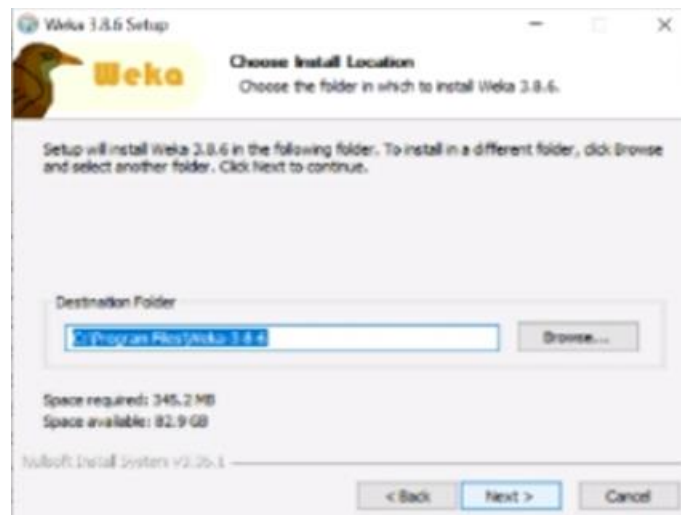


STEP 4-CHOOSE COMPONENT :

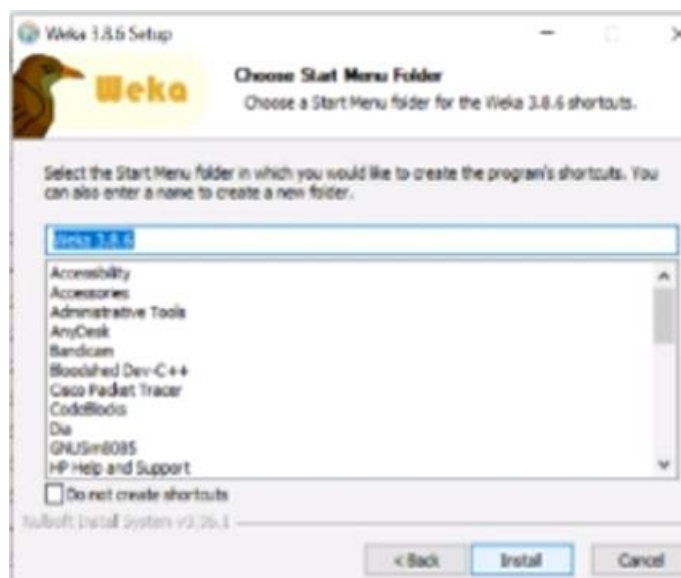


STEP 5- CHOOSE INSTALL LOCATION :

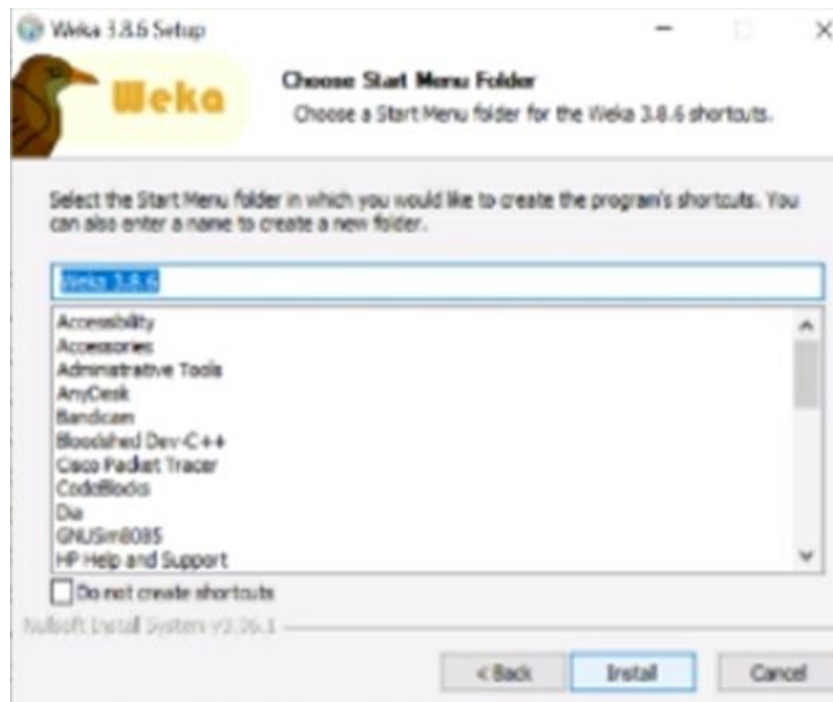
STEP 6- CHOOSE START MENUE FOLDER :



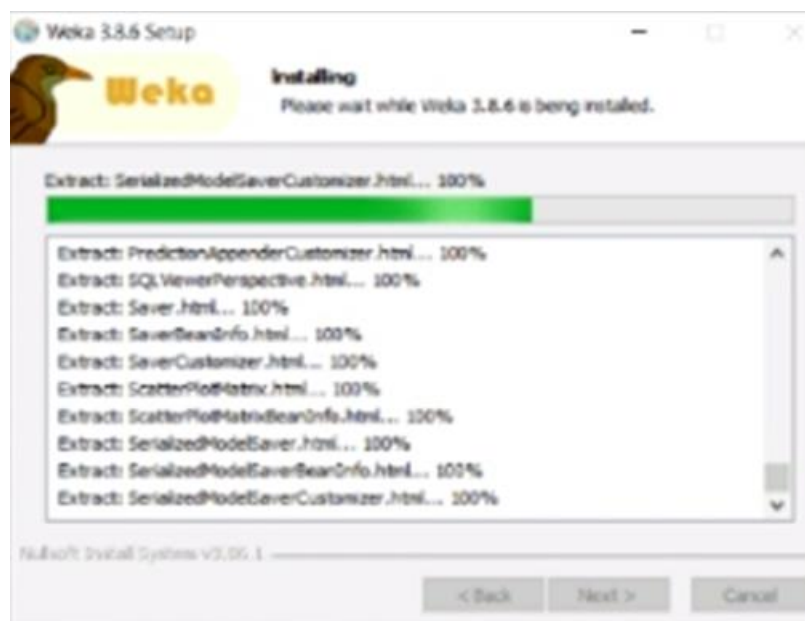
STEP 7- INSTALLATION :

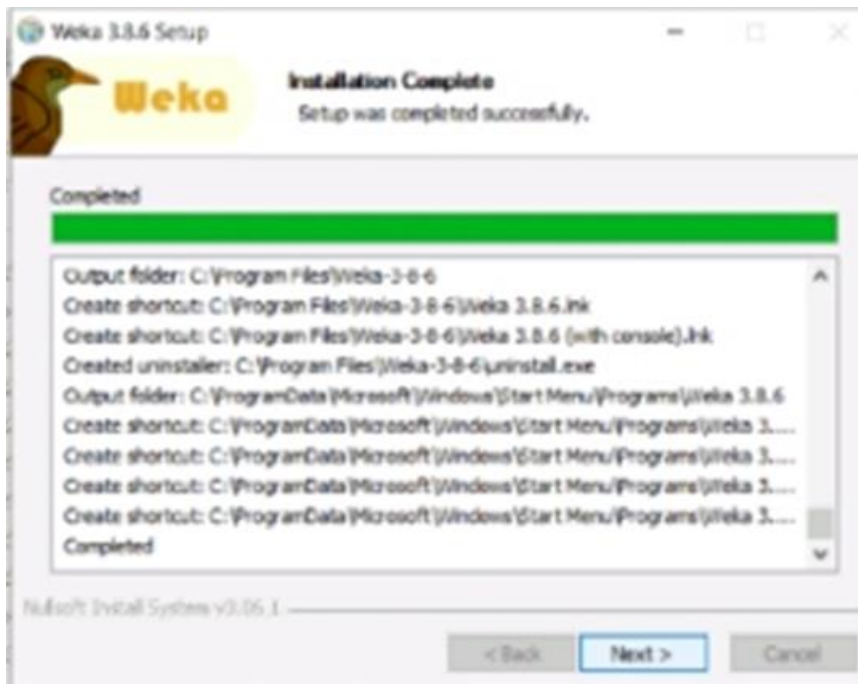


STEP 8- FINISH THE INSTALLATION :



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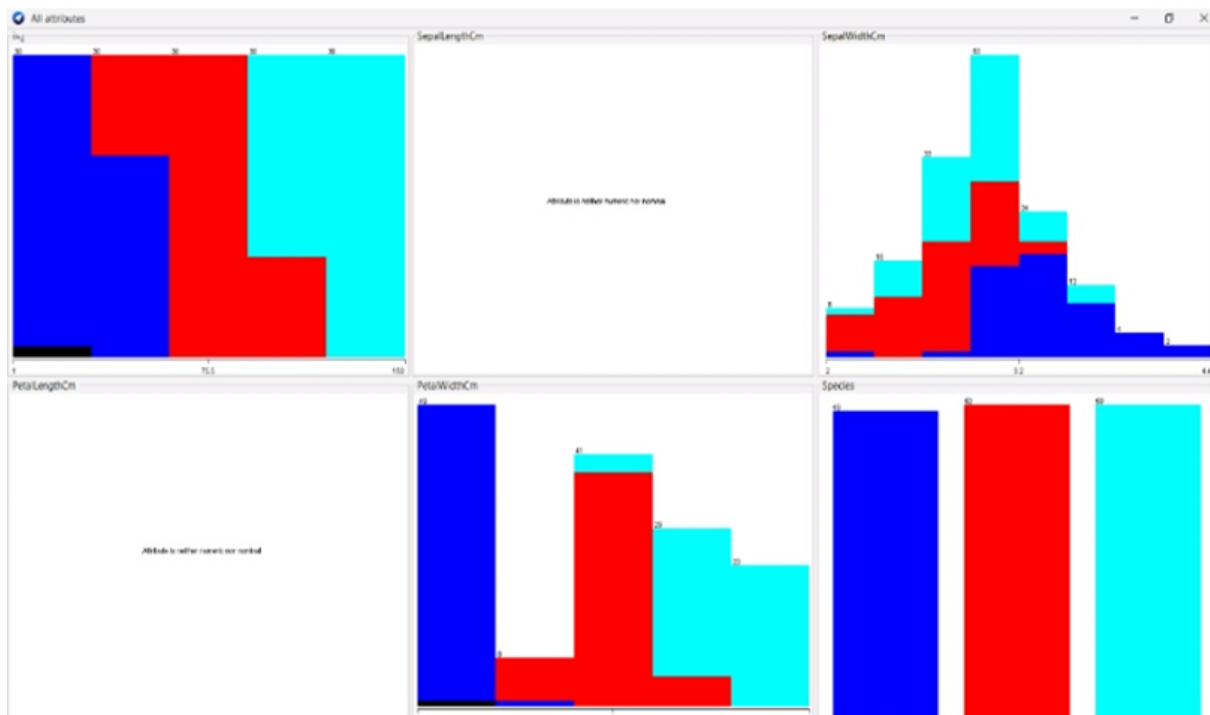
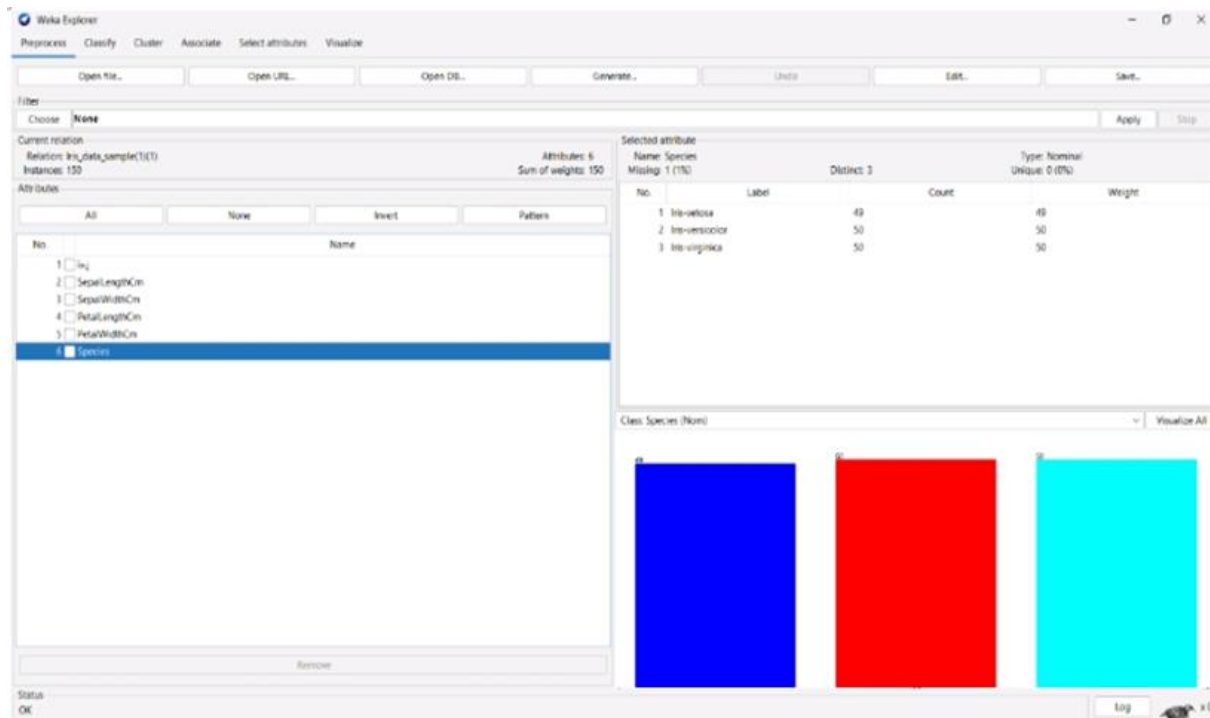


STEP 9-COMPLTE WEKA SETUP :

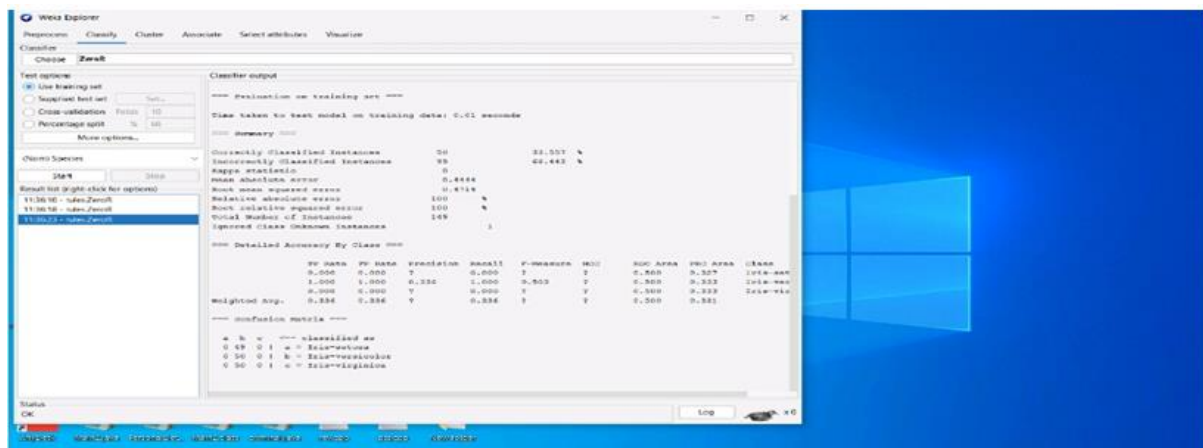


A TOOL PERFORMANCE :

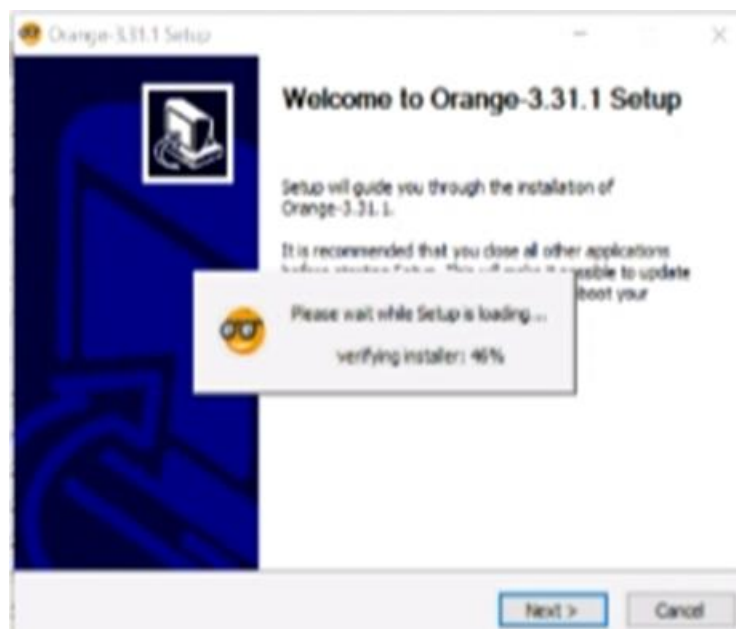
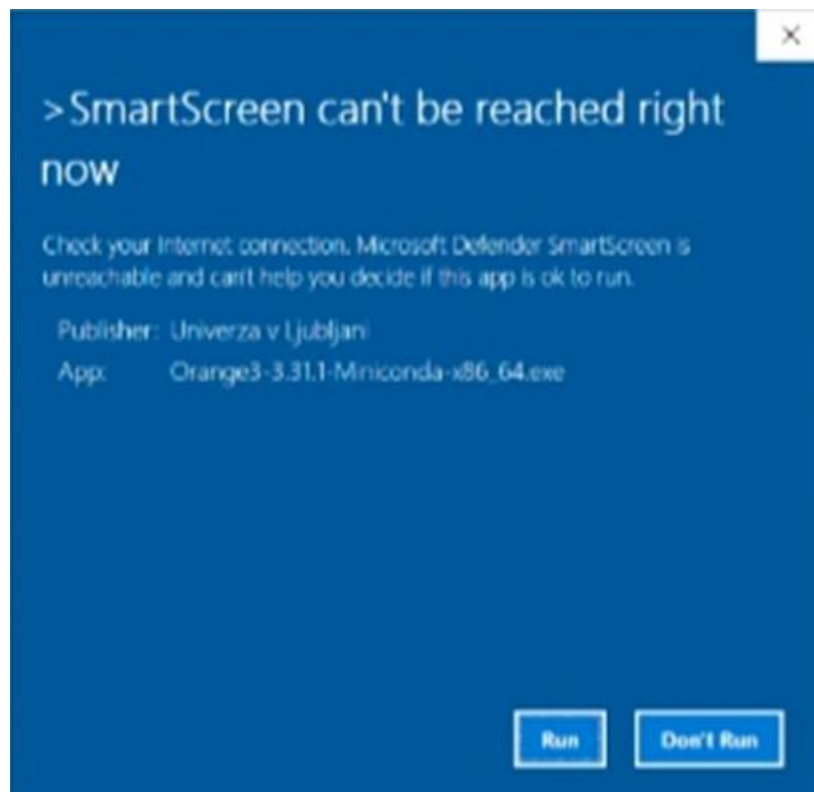
1. DATA PREPROCESSING :



2.DATA CLASSIFICATION :

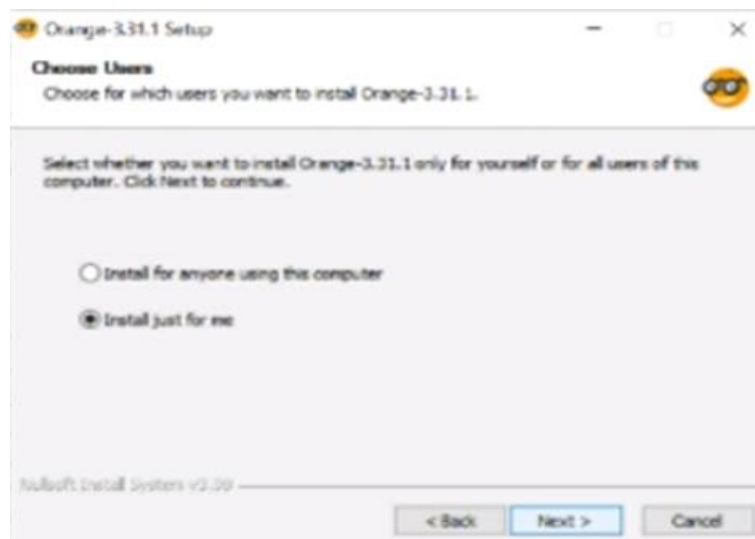


Step 1:

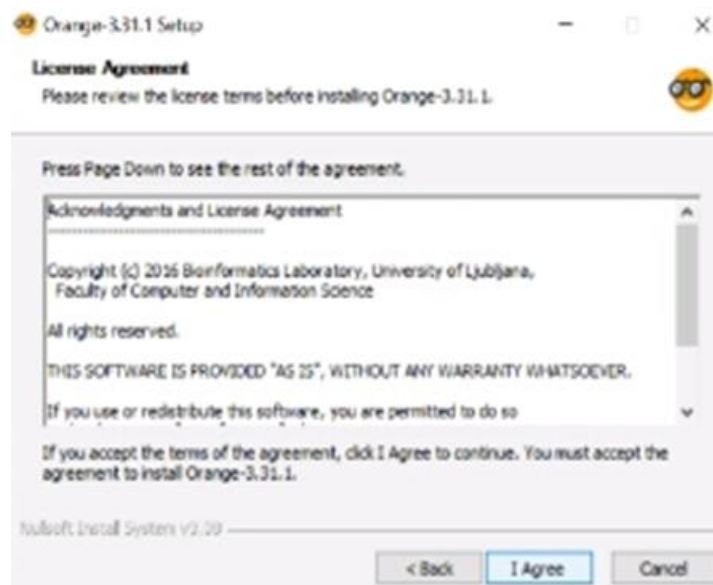


Step 2 :

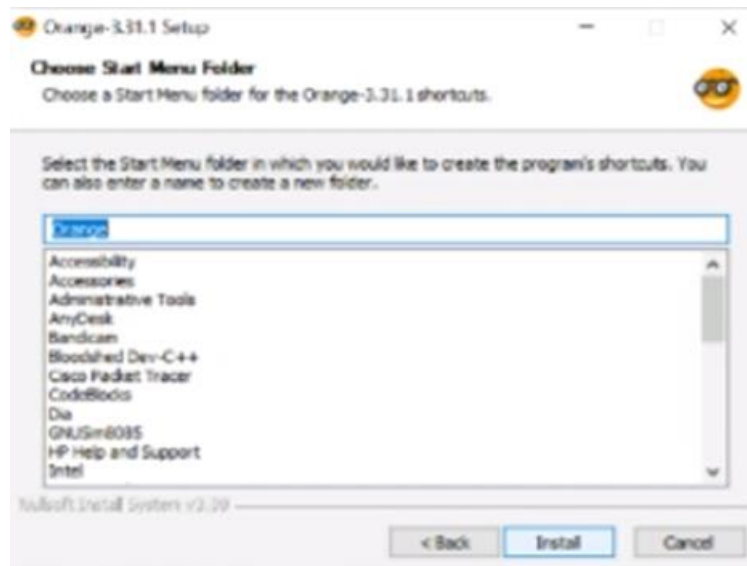
Step 3 :



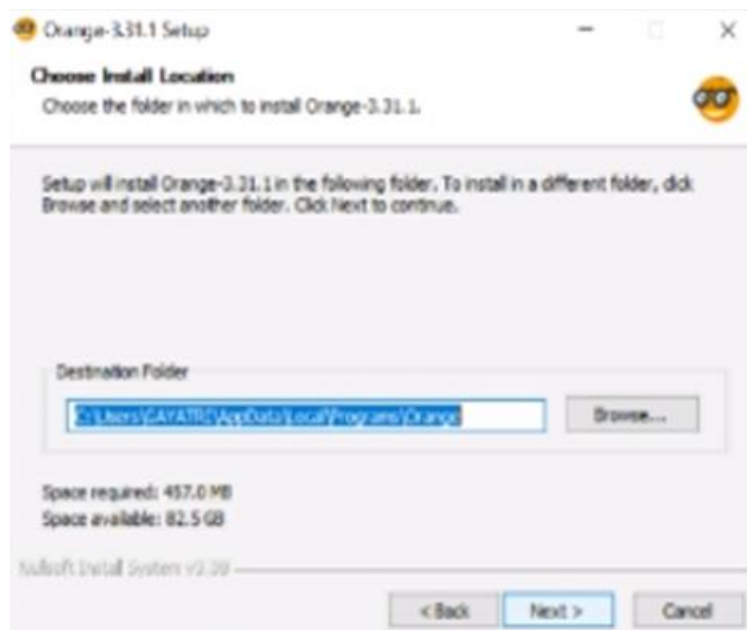
Step 4 :



Step 5 :

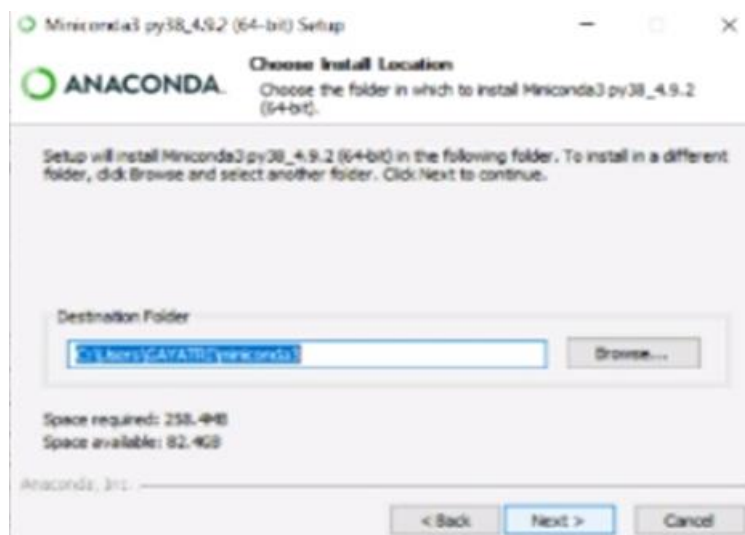
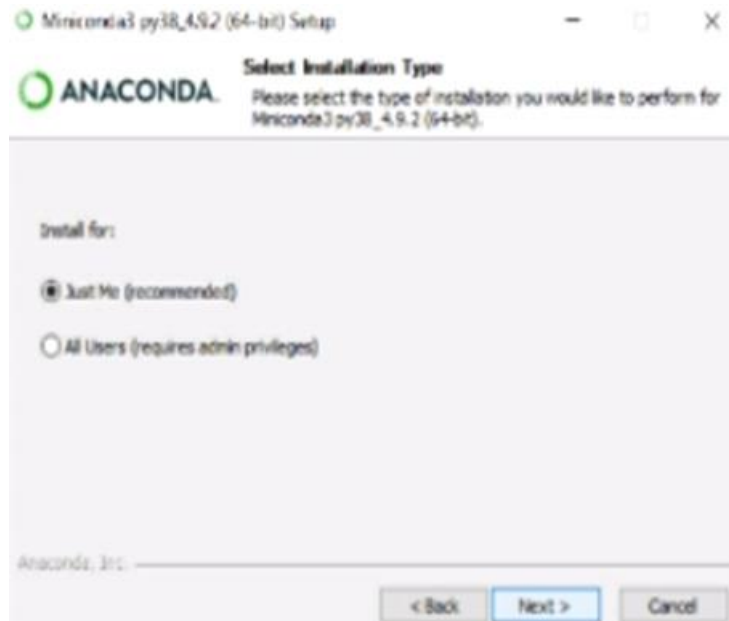


Step 6 :

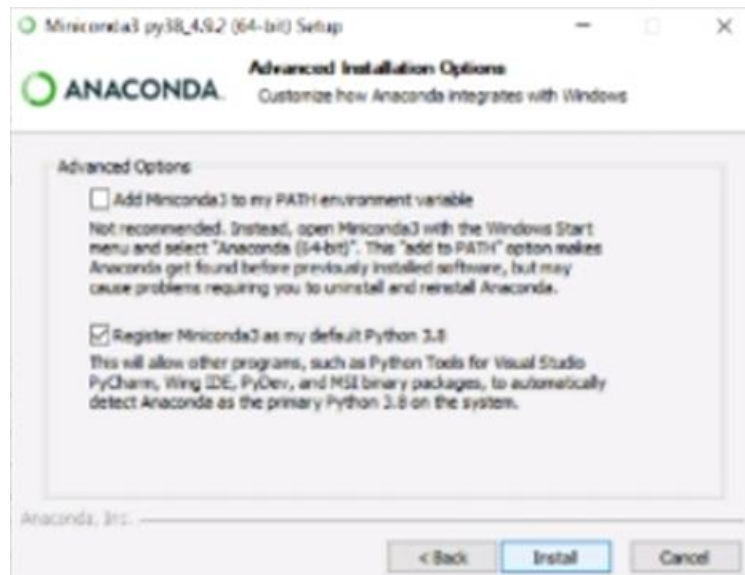


Step 7 :

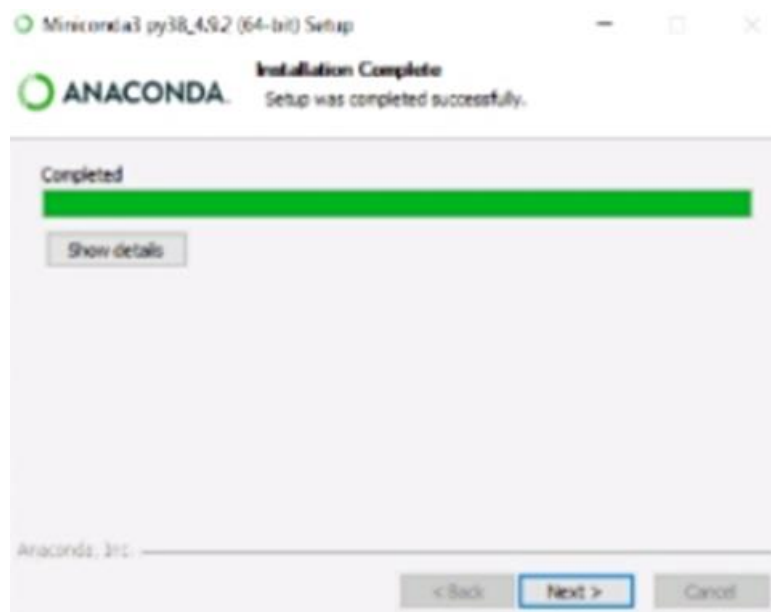
Step 8 :



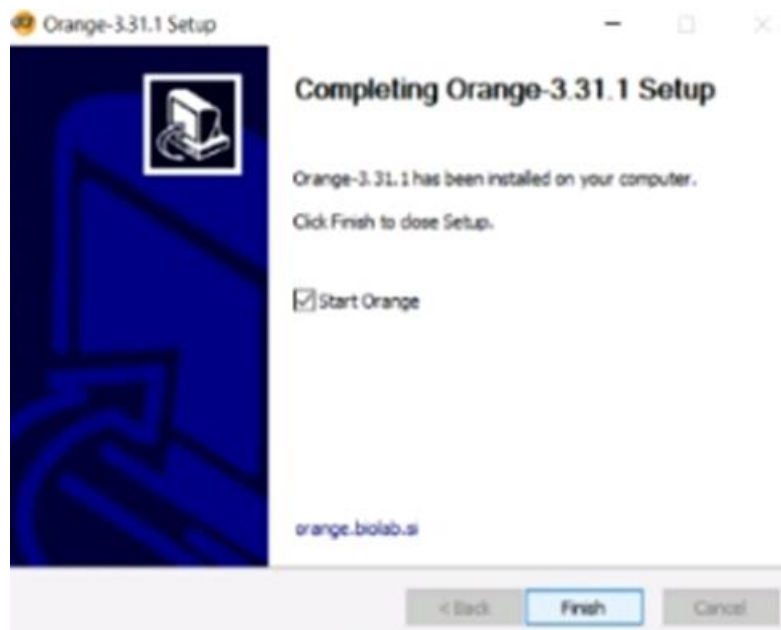
Step 9 :



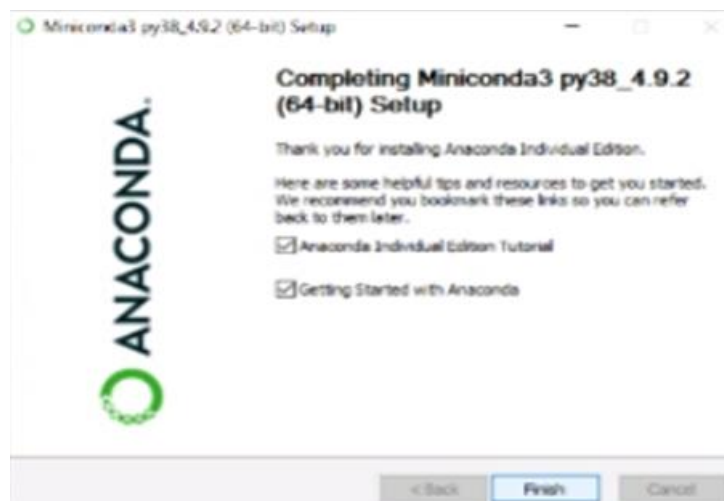
Step 10 :



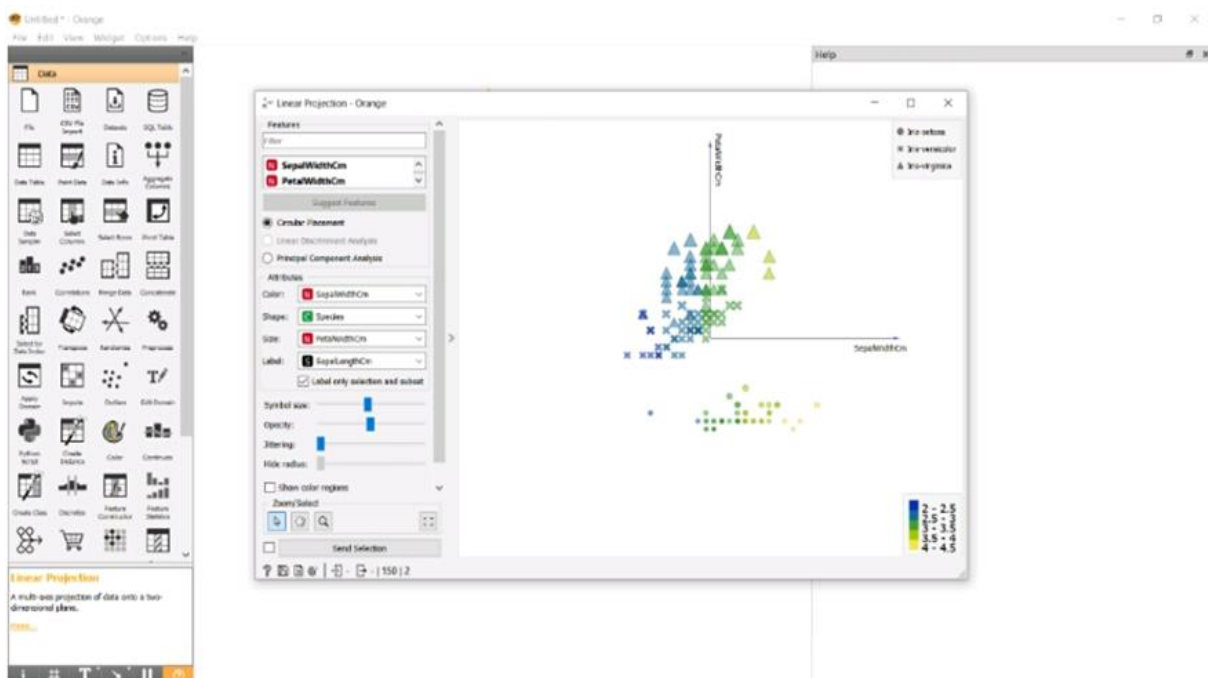
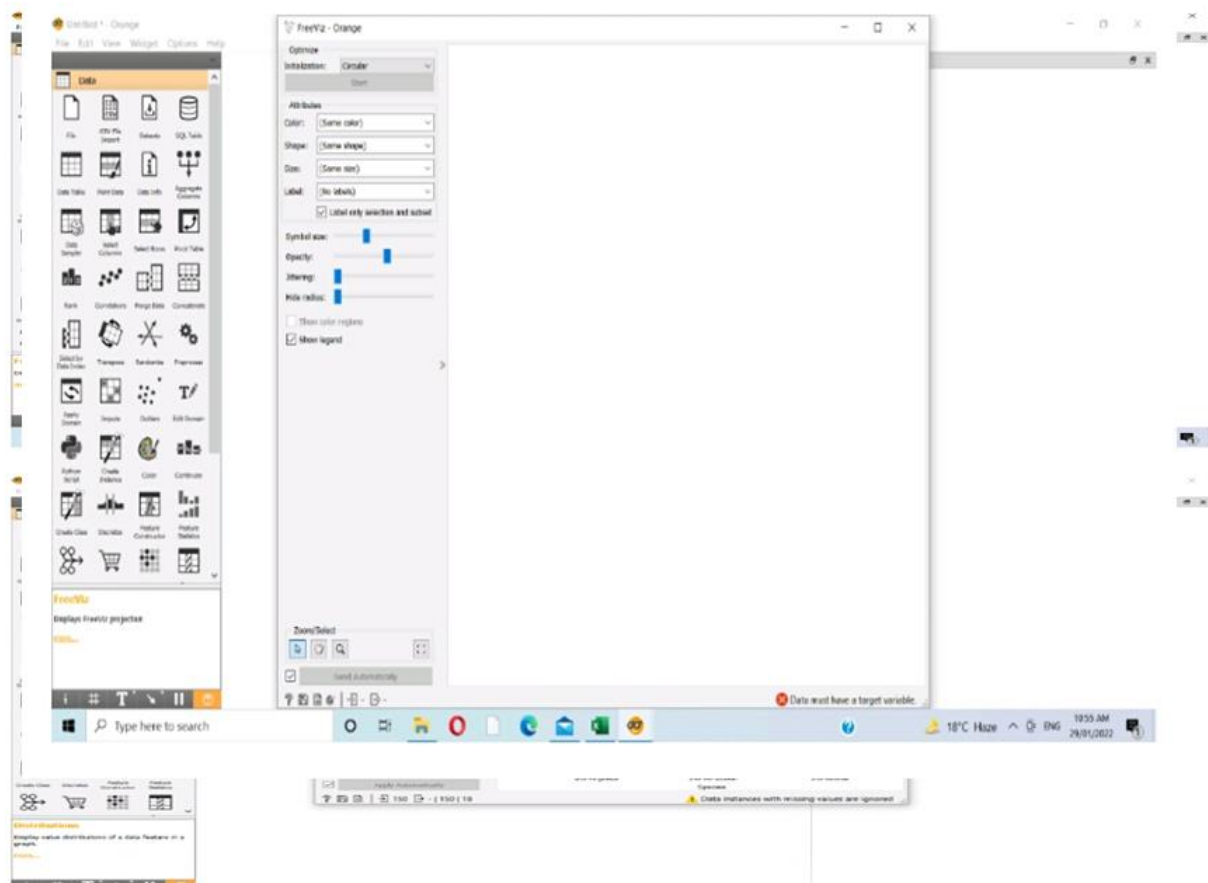
Step 11 :



Step 12 :



- 2) Show data distribution :
- 3) Show liners projection :
- 4) Show FreeViz :



Use dataset

<https://drive.google.com/file/d/1m6sKI1Dap0XK6Bw1edUd5PohwpPwXnd9/view>

Question 3. Differentiate in between free software, Open source software and proprietary software with respect to its properties.

Answer :

Assignment-1

Introduction: 10055

PRN- 2019BTECS00090

Q3 Differentiate in between free Software, Open Source Software and proprietary software with respect to its properties

Property	Free & Open Source S/w	Proprietary Software
① Licensing	Users are licensees. They have the right to copy, modify & share the product	Users are licensees. They cannot copy, modify or share the product
② Cost of product	Free	Not free (unless it is free ware)
③ Example Soft-ware	Python, Mozilla, Firefox, Google Chrome, MySQL, GIMP, Linux	Internet Explorer, Photoshop, Call of Duty, Windows, iOS, iTunes
④ Vendor lock-in	Users can switch to other alternative open source products or modify the Software	Users rely on the vendor to supports and update the products
⑤ Updates and Improvements	A Community of Contributors with a range of expertise can contribute to the Continuous improvement of the product.	The vendor is in complete charge at the update cycle and developing new features

Question 5. Enlist some examples along with its purpose and properties (at least 10) of FOSS and proprietary software with respect to database.

Answer :

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Q5 Enlist some example along with its purpose and properties (at least 10) of FOSS and proprietary Software with respect to database

→ Free Open Source Softwares [FOSS]

- ① Firefox :- A web Browser that Competes with Internet Explorer
- ② OpenOffice :- A Competitor to Microsoft Office
- ③ GIMP :- A Graphic tool with features found in Photoshop
- ④ Moodle :- Collaboration S/W that Competes with Microsoft SharePoint and EMC's Documentum
- ⑤ Marketcelera :- an enterprise trading platform for hedge fund managers that Competes with FlexTrade and postWave
- ⑥ Zimbra :- Opensource e-mail software that competes with Outlook Server
- ⑦ MySQL InnoDB & Enterprise DB :- Open Source db system Packages that each go head to head with commercial products from Oracle, Microsoft, Sybase and IBM
- ⑧ Sugar CRM :- Customer Relationship management software that competes with Salesforce.com and Siebel
- ⑨ Asterisk :- An open source implementation for making of PBX Corporate telephony S/W that Competes with offerings from Nortel and Cisco among others
- ⑩ Free BSD and Sun's OpenSolaris :- Open Source versions of the Unix Operating System

• Proprietary Software :-

- ① Operating System :- Proprietary OS cannot be modified by users at other Companies for eg Windows and OSX are both proprietary OS
- ② Software Programs :- Proprietary S/W programs are applications in which all rights are retained by the

developer or publisher

- ⑤ File formats :- Some file types are saved in a proprietary file format that can only be recognized by a specific program
- ⑥ Notion :- It is a leading s/w developer when it comes to antivirus solutions. It is a pioneer in antivirus protection and cyber security
- ⑦ Bitdefender :- This s/w provides excellent virus protection without being heavy on your computer
- ⑧ McAfee :- One of the best flexible closed source antivirus S/w is McAfee. Not only can you resolve security issue remotely on PC's, but you can protect any number of devices with the software
- ⑨ Asset Cloud :- Provided by Wasp Barcode, this package makes it easy to implement a comprehensive asset management system in your company
- ⑩ Asset Manager :- Another proprietary s/w for asset tracking, is Asset Manager by Liberty Street Software
- ⑪ Remotix :- Suitable for business users and individuals alike, this popular remote access software uses cloud technology to offer a slick remote access solution
- ⑫ Zoho Assist :- One of the most competitively priced software packages for remote desktop access is Zoho Assist
- ⑬ Templatify :- One of the best document management tools out there is templatify. It integrates seamlessly with a company's office suit including Microsoft Office, SharePoint, OneDrive and Google Drive and allow you to create all files and documents with your firm's branding
- ⑭ Insightly :- For streamlined customer relations management, Insightly is ideal for small and mid sized business. It has over 1.5 million users and boasts helpful features to help with workflow automation, call management, lead management, relationship linking and generating quotes.

Question 4. Using Anaconda Python create Histogram, Scatter plot and Bar plot for the dataset given below.

Dataset- https://drive.google.com/file/d/1i11BZFe8Xj9kNq7eeE9KOa_Iz1KhEdXJ/view

a. Scatter plot- Scatter plot of Price Vs Age

b. Histogram- for Kilometer and CC

c. Bar plot- Bar plot for different fuel types