Advance Software Engineering (SE-406)

LAB A1-G3

Laboratory Manual



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Submitted to: -

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EXPERIMENT 6

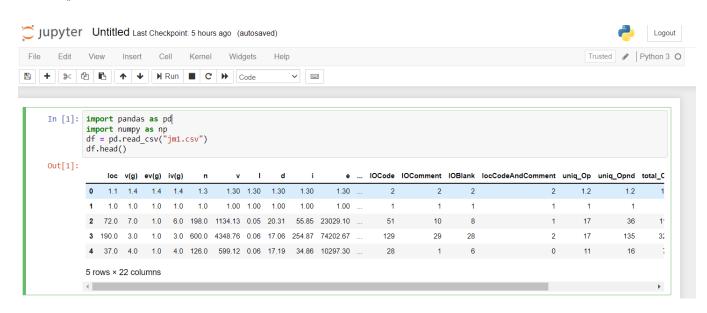
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<u>Aim:-</u> Preprocessing and cleaning of data collected in experiment 5.

Introduction:- Data Preprocessing is the most important step when we are building our model. In **Data Preprocessing** step, the data is transformed into a form where it becomes suitable for model ingestion. **Data Cleaning** is the process of analyzing data for finding incorrect, corrupt, and missing values and ablating it to make it suitable for input to data analytics and various machine learning algorithms.

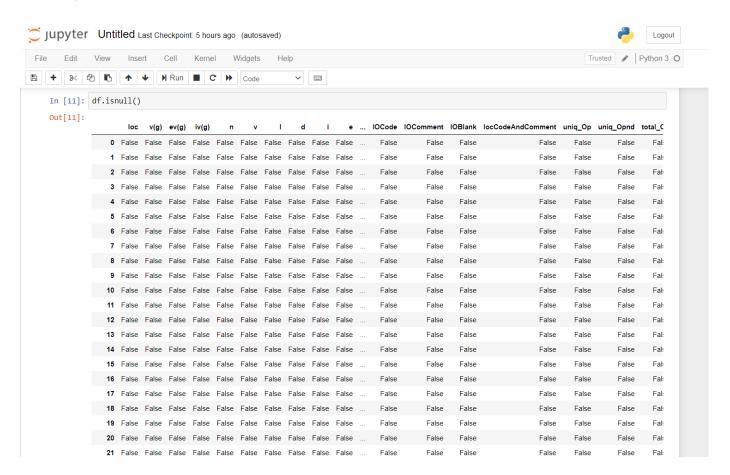
Code & Output:-

import pandas as pd import numpy as np df = pd.read_csv("jm1.csv") df.head()

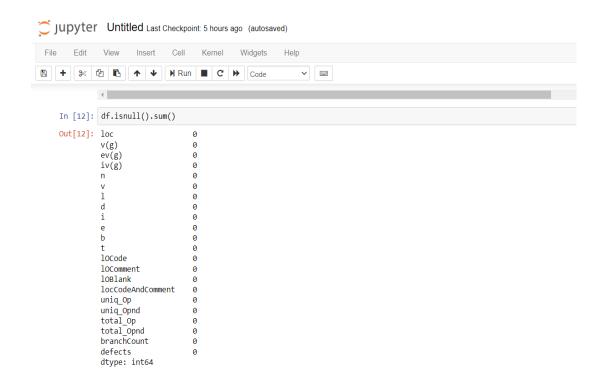


<u>Note:</u> 'isnull' helps us find where in our dataset there are missing values. This is useful information as this is what we need to correct while data cleaning.

df.isnull()



df.isnull().sum() #shows how many of the null values #it shows zero missing values.



<u>Result:</u>- Since there are no missing value, no **data cleaning needed** because the data is all important.

<u>Learning from experiment:</u>- We are successful in Preprocessing and cleaning of a dataset collected in experiment 5 i.e. NASA Metrics Data Program.