In [1]:

**import** pandas **as** pd

**import** matplotlib.pylab **as** plt

**import** numpy **as** np

**import** seaborn **as** sns

In [3]:

df **=** pd**.**read\_csv("tecdiv2ndPractical.csv")

In [4]:

*# Read the CSV file*

df**.**head()

Out[4]:

## Timestamp Email Address Name Email Roll no

**0** 1/17/2022

12:45:09

[sejal.zambare19@pccoepune.org](mailto:sejal.zambare19@pccoepune.org) Sejal

Zambare

[sejal.zambare19@gmail.com](mailto:sejal.zambare19@gmail.com) TECOC359 72

**1**

1/17/2022

12:45:44

[rushikesh.thorat19@pccoepune.org](mailto:rushikesh.thorat19@pccoepune.org)

Rushikesh

Vilas Thorat

[rushikesh.thorat19@pccoepune.org](mailto:rushikesh.thorat19@pccoepune.org) TECOC347 7

**2** 1/17/2022

12:46:10

[atharv.sontakke19@pccoepune.org](mailto:atharv.sontakke19@pccoepune.org) Atharv

Sontakke

[atharv123sontakke@gmail.com](mailto:atharv123sontakke@gmail.com) TECOC340 72

**3**

1/17/2022

12:46:21

[amisha.sherekar19@pccoepune.org](mailto:amisha.sherekar19@pccoepune.org)

Amisha Sunil Sherekar

[amisha.sherekar19@pccoepune.org](mailto:amisha.sherekar19@pccoepune.org) TECOC328 72

**4** 1/17/2022 [saurabh.sawardekar19@pccoepune.org](mailto:saurabh.sawardekar19@pccoepune.org)

12:46:31

Saurabh

Raju Sawardekar

[saurabh.sawardekar19@pccoepune.org](mailto:saurabh.sawardekar19@pccoepune.org) TECOC326 72

In [5]:

*# Last five rows*

df**.**tail()

Out[5]:

## Timestamp Email Address Name Email Roll no

**59** 1/20/2022

9:24:40

[pratik.meshram20@pccoepune.org](mailto:pratik.meshram20@pccoepune.org) Pratik Amrut

Meshram

[pratik.meshram20@pccoepune.org](mailto:pratik.meshram20@pccoepune.org) TECOC381 72

**60**

1/20/2022

9:36:14

[prasad.zore19@pccoepune.org](mailto:prasad.zore19@pccoepune.org) Prasad Zore

[prasad.zore@outlook.com](mailto:prasad.zore@outlook.com) TECOC360 7

**61** 1/20/2022

9:42:34

[sudhir.varu19@pccoepune.org](mailto:sudhir.varu19@pccoepune.org) SUDHIR

VARU

[sudhirvaru01@gmail.com](mailto:sudhirvaru01@gmail.com) TECOC351 7

**62**

1/20/2022

10:22:05

[bhagyashree.takale19@pccoepune.org](mailto:bhagyashree.takale19@pccoepune.org)

Bhagyashree

Gorakh Takale

[bbhagyashree002@gmail.com](mailto:bbhagyashree002@gmail.com) TECOC345 7

**63** 1/20/2022 [sarvesh.waghmare19@pccoepune.org](mailto:sarvesh.waghmare19@pccoepune.org)

10:38:06

Waghmare Sarvesh Jitendra

[sarvesh.waghmare19@pccoepune.org](mailto:sarvesh.waghmare19@pccoepune.org) TECOC356 7

In [6]:

*# Describtion about dataset*

df**.**describe()

Out[6]:

**Mobile No. First year: Sem 1 First year: Sem 2 Second year: Sem 1 Second year: Sem 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **count** | 6.400000e+01 | 64.000000 | 64.000000 | 64.000000 | 64.000000 |
| **mean** | 8.623097e+09 | 8.834219 | 9.095469 | 9.292031 | 9.377187 |
| **std** | 9.132070e+08 | 11.187839 | 11.171986 | 0.528523 | 0.495185 |
| **min** | 7.028870e+09 | 0.000000 | 0.000000 | 6.900000 | 7.200000 |
| **25%** | 7.766559e+09 | 7.237500 | 7.655000 | 9.050000 | 9.140000 |
| **50%** | 8.805720e+09 | 8.260000 | 8.400000 | 9.445000 | 9.450000 |
| **75%** | 9.335094e+09 | 8.802500 | 9.115000 | 9.645000 | 9.725000 |
| **max** | 9.975810e+09 | 95.000000 | 95.000000 | 9.910000 | 9.950000 |

In [7]:

*# Information about the dataset*

df**.**info()

<class 'pandas.core.frame.DataFrame'> RangeIndex: 64 entries, 0 to 63

Data columns (total 11 columns):

# Column Non-Null Count Dtype

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 |  | Timestamp |  |  | 64 | non-null |  | object |
| 1 |  | Email Address |  |  | 64 | non-null |  | object |
| 2 |  | Name |  |  | 64 | non-null |  | object |
| 3 |  | Email |  |  | 64 | non-null |  | object |
| 4 |  | Roll no |  |  | 64 | non-null |  | object |
| 5 |  | PRN No. |  |  | 64 | non-null |  | object |
| 6 |  | Mobile No. |  |  | 64 | non-null |  | int64 |
| 7 |  | First year: | Sem | 1 | 64 | non-null |  | float64 |
| 8 |  | First year: | Sem | 2 | 64 | non-null |  | float64 |
| 9 | Second year: | | Sem 1 | | 64 | non-null | float64 | |
| 10 | Second year: | | Sem 2 | | 64 | non-null | float64 | |

dtypes: float64(4), int64(1), object(6) memory usage: 5.6+ KB

In [8]:

*# print column names of the dataset*

df**.**columns

Out[8]:

In [9]:

Index(['Timestamp', 'Email Address', 'Name', 'Email', 'Roll no ', 'PRN No.', 'Mobile No.', 'First year: Sem 1', 'First year: Sem 2',

'Second year: Sem 1', 'Second year: Sem 2'], dtype='object')

*# use the isnull() method to create a Boolean mask and then use the sum() method to cou*

*# isnull() is the function that is used to check missing values or null values in pandas*

df**.**isnull()**.**sum()

Out[9]:

Timestamp 0

Email Address 0

Name 0

Email 0

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Roll no | |  |  | 0 |
| PRN No. | |  |  | 0 |
| Mobile No. | |  |  | 0 |
| First year: | | Sem | 1 | 0 |
| First year: | | Sem | 2 | 0 |
| Second | year: | Sem 1 | | 0 |
| Second  dtype: | year:  int64 | Sem 2 | | 0 |

In [19]:

*# converting the roll numbers from TECC342 ---> 342*

*# This code iterates through the items of the 'Roll no' column using the iteritems() fu*

**for** i **in** df['Roll no ']**.**iteritems():

df['Roll no '][i[0]] **=** df['Roll no '][i[0]][**-**3:] df**.**head()

C:\Users\adesh\AppData\Local\Temp\ipykernel\_26628\66136706.py:5: FutureWarning: iteritem s is deprecated and will be removed in a future version. Use .items instead.

for i in df['Roll no '].iteritems(): C:\Users\adesh\AppData\Local\Temp\ipykernel\_26628\66136706.py:6: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user\_ guide/indexing.html#returning-a-view-versus-a-copy

df['Roll no '][i[0]] = df['Roll no '][i[0]][-3:]

Out[19]:

12:45:09 Zambare

|  |  |  |
| --- | --- | --- |
| **Timestamp Email Address Name Email** | **Roll no** | **PRN N** |
| **0** 1/17/2022 [sejal.zambare19@pccoepune.org](mailto:sejal.zambare19@pccoepune.org) Sejal [sejal.zambare19@gmail.com](mailto:sejal.zambare19@gmail.com) | 359 | 7202684 |
| 1/17/2022 Rushikesh  **1** 12:45:44 [rushikesh.thorat19@pccoepune.org](mailto:rushikesh.thorat19@pccoepune.org) Vilas [rushikesh.thorat19@pccoepune.org](mailto:rushikesh.thorat19@pccoepune.org) | 347 | 7202677 |
| **2** 1/17/2022 [atharv.sontakke19@pccoepune.org](mailto:atharv.sontakke19@pccoepune.org) Atharv [atharv123sontakke@gmail.com](mailto:atharv123sontakke@gmail.com) | 340 | 7202674 |
| 1/17/2022 Amisha  **3** 12:46:21 [amisha.sherekar19@pccoepune.org](mailto:amisha.sherekar19@pccoepune.org) Sunil [amisha.sherekar19@pccoepune.org](mailto:amisha.sherekar19@pccoepune.org) | 328 | 7202669 |
| 1/17/2022 Saurabh  **4** 12:46:31 [saurabh.sawardekar19@pccoepune.org](mailto:saurabh.sawardekar19@pccoepune.org) Raju [saurabh.sawardekar19@pccoepune.org](mailto:saurabh.sawardekar19@pccoepune.org) | 326 | 7202668 |

Thorat

12:46:10 Sontakke

Sherekar

Sawardekar

In [20]:

*# The max() method returns a Series with the maximum value of each column.*

df**.**max()

Out[20]:

In [21]:

*# Return the mean of the values in the specified axis*

df**.**mean()

Timestamp 1/20/2022 9:42:34

Email Address [vishwajeet.shinde19@pccoepune.org](mailto:vishwajeet.shinde19@pccoepune.org) Name Waghmare Sarvesh Jitendra

Email [zawaresumedha@gmail.com](mailto:zawaresumedha@gmail.com)

|  |  |  |
| --- | --- | --- |
| Roll no |  | 73 |
| PRN No.  Mobile No. |  | 72164294C  9975810366 |
| First year: | Sem 1 | 95.0 |
| First year: | Sem 2 | 95.0 |
| Second year: | Sem 1 | 9.91 |
| Second year:  dtype: object | Sem 2 | 9.95 |

C:\Users\adesh\AppData\Local\Temp\ipykernel\_26628\3698961737.py:1: FutureWarning: The de fault value of numeric\_only in DataFrame.mean is deprecated. In a future version, it wil l default to False. In addition, specifying 'numeric\_only=None' is deprecated. Select on ly valid columns or specify the value of numeric\_only to silence this warning.

df.mean()

Out[21]:

In [22]:

*# Return the median of the values in the specified axis*

df**.**median()

Mobile No. 8.623097e+09

|  |  |  |
| --- | --- | --- |
| First year: | Sem 1 | 8.834219e+00 |
| First year: | Sem 2 | 9.095469e+00 |
| Second year: | Sem 1 | 9.292031e+00 |
| Second year:  dtype: float64 | Sem 2 | 9.377187e+00 |

C:\Users\adesh\AppData\Local\Temp\ipykernel\_26628\342565932.py:3: FutureWarning: The def ault value of numeric\_only in DataFrame.median is deprecated. In a future version, it wi ll default to False. In addition, specifying 'numeric\_only=None' is deprecated. Select o nly valid columns or specify the value of numeric\_only to silence this warning.

df.median()

Out[22]:

In [23]:

df**.**mode()

Roll no 3.365000e+02

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Mobile No.  First year: | Sem | 1 |  | 8.805720e+09  8.260000e+00 |
| First year: | Sem | 2 |  | 8.400000e+00 |
| Second year: | Sem |  | 1 | 9.445000e+00 |
| Second year:  dtype: float64 | Sem |  | 2 | 9.450000e+00 |

Out[23]:

## Timestamp Email Address Name Email Roll no

**PRN**

**0** 1/17/2022

12:45:09

[abhishek.dongare19@pccoepune.org](mailto:abhishek.dongare19@pccoepune.org) Abhishek

Dongare

[abhishek.rath19@pccoepune.org](mailto:abhishek.rath19@pccoepune.org) 249 120B20

**1**

1/17/2022

12:45:44

[abhishek.rath19@pccoepune.org](mailto:abhishek.rath19@pccoepune.org)

Abhishek

Rath

[abhishekdongare2001@gmail.com](mailto:abhishekdongare2001@gmail.com) 301 120B20

**2** 1/17/2022 [aditi.naiknaware19@pccoepune.org](mailto:aditi.naiknaware19@pccoepune.org)

12:46:10

Aditi Hanumant Naiknaware

[aditi.naiknaware@gmail.com](mailto:aditi.naiknaware@gmail.com) 302 719106

**3**

1/17/2022

12:46:21

[akash.satpute19@pccoepune.org](mailto:akash.satpute19@pccoepune.org)

Akash Satpute

[akashsatpute244@gmail.com](mailto:akashsatpute244@gmail.com) 303 720261

**4** 1/17/2022

12:46:31

[akshay.siddannavar19@pccoepune.org](mailto:akshay.siddannavar19@pccoepune.org) Akshay Ajay

Siddannavar

[akshay.siddannavar19@pccoepune.org](mailto:akshay.siddannavar19@pccoepune.org) 304 720261

**...** ... ... ... ... ...

**59** 1/20/2022 [twinkle.shirsath19@pccoepune.org](mailto:twinkle.shirsath19@pccoepune.org)

10:22:05

Varunraj

Vijay Tipugade

[vedantnerkar11@gmail.com](mailto:vedantnerkar11@gmail.com) 381 721642

**60**

1/20/2022

10:38:06

[varunraj.tipugade20@pccoepune.org](mailto:varunraj.tipugade20@pccoepune.org)

Vedant

Narendra [vighnesh.pathrikar19@pccoepune.org](mailto:vighnesh.pathrikar19@pccoepune.org) 382 721642 Nerkar

**61** 1/20/2022

9:24:40

[vedant.nerkar19@pccoepune.org](mailto:vedant.nerkar19@pccoepune.org) Vighnesh

Pathrikar

[vishwajeetshinde2001@gmail.com](mailto:vishwajeetshinde2001@gmail.com) 64 721642

**62**

1/20/2022

9:36:14

[vighnesh.pathrikar19@pccoepune.org](mailto:vighnesh.pathrikar19@pccoepune.org)

Vishwajeet shankar shinde

[zalkiteju1420@gmail.com](mailto:zalkiteju1420@gmail.com) 72 721642

**63** 1/20/2022 [vishwajeet.shinde19@pccoepune.org](mailto:vishwajeet.shinde19@pccoepune.org)

9:42:34

Waghmare Sarvesh Jitendra

[zawaresumedha@gmail.com](mailto:zawaresumedha@gmail.com) 73 721642

# 64 rows × 11 columns

In [24]:

Out[24]:

df**.**mean

<bound method NDFrame.\_add\_numeric\_operations.<locals>.mean of Timestamp Email Address \

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 1/17/2022 | 12:45:09 | [sejal.zambare19@pccoepune.org](mailto:sejal.zambare19@pccoepune.org) | | | | | |
| 1 | 1/17/2022 | 12:45:44 | [rushikesh.thorat19@pccoepune.org](mailto:rushikesh.thorat19@pccoepune.org) | | | | | |
| 2 | 1/17/2022 | 12:46:10 | [atharv.sontakke19@pccoepune.org](mailto:atharv.sontakke19@pccoepune.org) | | | | | |
| 3 | 1/17/2022 | 12:46:21 | [amisha.sherekar19@pccoepune.org](mailto:amisha.sherekar19@pccoepune.org) | | | | | |
| 4 | 1/17/2022 | 12:46:31 | [saurabh.sawardekar19@pccoepune.org](mailto:saurabh.sawardekar19@pccoepune.org) | | | | | |
| .. |  | ... | ... | | | | | |
| 59 | 1/20/2022 | 9:24:40 | [pratik.meshram20@pccoepune.org](mailto:pratik.meshram20@pccoepune.org) | | | | | |
| 60 | 1/20/2022 | 9:36:14 | [prasad.zore19@pccoepune.org](mailto:prasad.zore19@pccoepune.org) | | | | | |
| 61 | 1/20/2022 | 9:42:34 | [sudhir.varu19@pccoepune.org](mailto:sudhir.varu19@pccoepune.org) | | | | | |
| 62 | 1/20/2022 | 10:22:05 | [bhagyashree.takale19@pccoepune.org](mailto:bhagyashree.takale19@pccoepune.org) | | | | | |
| 63 | 1/20/2022 | 10:38:06 | [sarvesh.waghmare19@pccoepune.org](mailto:sarvesh.waghmare19@pccoepune.org) | | | | | |
|  | Name | | | Email | | Roll | no | \ |
| 0 | Sejal Zambare | | | [sejal.zambare19@gmail.com](mailto:sejal.zambare19@gmail.com) | |  | 359 |  |
| 1 | Rushikesh Vilas Thorat | | | [rushikesh.thorat19@pccoepune.org](mailto:rushikesh.thorat19@pccoepune.org) | |  | 347 |  |
| 2 | Atharv Sontakke | | | [atharv123sontakke@gmail.com](mailto:atharv123sontakke@gmail.com) | |  | 340 |  |
| 3 | Amisha Sunil Sherekar | | | [amisha.sherekar19@pccoepune.org](mailto:amisha.sherekar19@pccoepune.org) | |  | 328 |  |
| 4 | Saurabh Raju Sawardekar | | | [saurabh.sawardekar19@pccoepune.org](mailto:saurabh.sawardekar19@pccoepune.org) | |  | 326 |  |
| .. | ... | | | ... | |  | ... |  |
| 59 | Pratik Amrut Meshram | | | [pratik.meshram20@pccoepune.org](mailto:pratik.meshram20@pccoepune.org) | |  | 381 |  |
| 60 | Prasad Zore | | | [prasad.zore@outlook.com](mailto:prasad.zore@outlook.com) | |  | 360 |  |
| 61 | SUDHIR VARU | | | [sudhirvaru01@gmail.com](mailto:sudhirvaru01@gmail.com) | |  | 351 |  |
| 62 | Bhagyashree Gorakh Takale | | | [bbhagyashree002@gmail.com](mailto:bbhagyashree002@gmail.com) | |  | 345 |  |
| 63 | Waghmare Sarvesh Jitendra | | | [sarvesh.waghmare19@pccoepune.org](mailto:sarvesh.waghmare19@pccoepune.org) | |  | 356 |  |
| PRN No. Mobile No. First year: Sem 1 First year: Sem 2 \ | | | | | | | | |
| 0 | 72026841K | 8208217782 | | 8.40 | 8.60 | | | |
| 1 | 72026776F | 9021261925 | | 8.14 | 8.14 | | | |
| 2 | 72026742M | 9009804629 | | 6.61 | 6.61 | | | |
| 3 | 72026696D | 8698227548 | | 7.20 | 7.30 | | | |
| 4 | 72026682D | 7774072850 | | 7.05 | 7.45 | | | |
| .. | ... | ... | | ... | ... | | | |
| 59 | 72164278M | 7666479857 | | 0.00 | 0.00 | | | |
| 60 | 72026843F | 7387645749 | | 8.31 | 8.27 | | | |
| 61 | 72026799E | 9657017250 | | 8.31 | 8.42 | | | |
| 62 | 72026760K | 8805813576 | | 8.70 | 8.50 | | | |
| 63 | 72026817G | 7218935035 | | 6.90 | 7.07 | | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 0 | Second | year: | Sem 1  9.80 | Second | year: | Sem 2  9.90 |
| 1 |  |  | 9.32 |  |  | 9.82 |
| 2 |  |  | 9.14 |  |  | 9.14 |
| 3 |  |  | 8.90 |  |  | 9.20 |
| 4 |  |  | 9.05 |  |  | 9.40 |
| .. |  |  | ... |  |  | ... |
| 59 |  |  | 9.09 |  |  | 9.36 |
| 60 |  |  | 9.45 |  |  | 9.77 |
| 61 |  |  | 8.53 |  |  | 8.64 |
| 62 |  |  | 8.70 |  |  | 8.80 |
| 63 |  |  | 9.05 |  |  | 9.20 |

[64 rows x 11 columns]>

OUTLIERS

In [29]:

Out[29]:

In [30]:

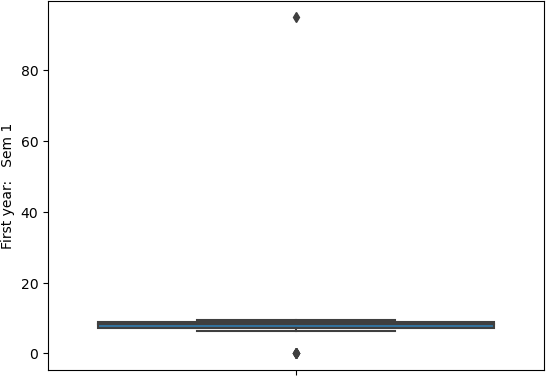
Out[30]:

In [32]:

Out[32]:

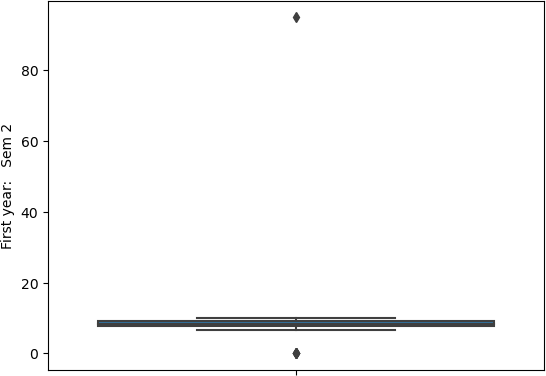
sns**.**boxplot(y**=**df['First year: Sem 1'])

<Axes: ylabel='First year: Sem 1'>



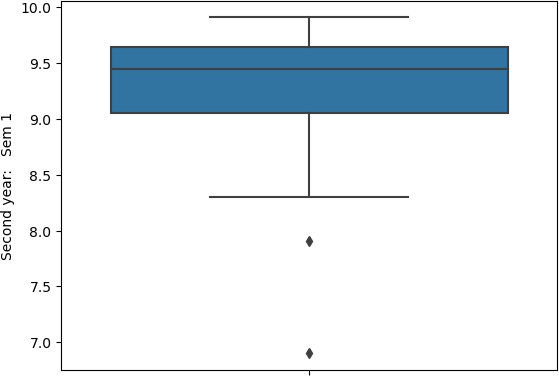
sns**.**boxplot(y**=**df['First year: Sem 2'])

<Axes: ylabel='First year: Sem 2'>



sns**.**boxplot(y**=**df['Second year: Sem 1'])

<Axes: ylabel='Second year: Sem 1'>



In [34]:

Out[34]:

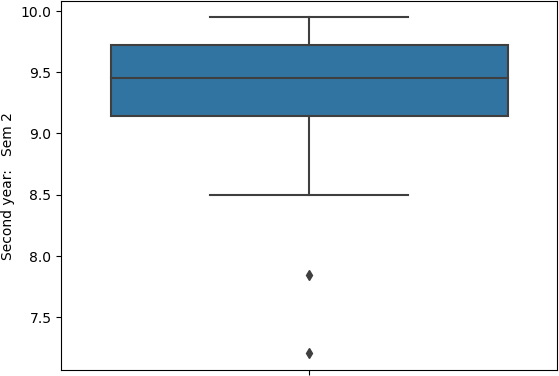
In [35]:

df**.**head()

df**.**tail()

sns**.**boxplot(y**=**df['Second year: Sem 2'])

<Axes: ylabel='Second year: Sem 2'>



Out[35]:

## Timestamp Email Address Name Email Roll no

**PRN**

**59** 1/20/2022

9:24:40

[pratik.meshram20@pccoepune.org](mailto:pratik.meshram20@pccoepune.org) Pratik Amrut

Meshram

[pratik.meshram20@pccoepune.org](mailto:pratik.meshram20@pccoepune.org) 381 7216427

**60**

1/20/2022

9:36:14

[prasad.zore19@pccoepune.org](mailto:prasad.zore19@pccoepune.org) Prasad Zore

[prasad.zore@outlook.com](mailto:prasad.zore@outlook.com) 360 720268

**61** 1/20/2022

9:42:34

[sudhir.varu19@pccoepune.org](mailto:sudhir.varu19@pccoepune.org) SUDHIR

VARU

[sudhirvaru01@gmail.com](mailto:sudhirvaru01@gmail.com) 351 720267

**62**

1/20/2022

10:22:05

[bhagyashree.takale19@pccoepune.org](mailto:bhagyashree.takale19@pccoepune.org)

Bhagyashree

Gorakh Takale

[bbhagyashree002@gmail.com](mailto:bbhagyashree002@gmail.com) 345 720267

**63** 1/20/2022 [sarvesh.waghmare19@pccoepune.org](mailto:sarvesh.waghmare19@pccoepune.org)

10:38:06

Waghmare Sarvesh Jitendra

[sarvesh.waghmare19@pccoepune.org](mailto:sarvesh.waghmare19@pccoepune.org) 356 720268

In [41]:

*# 2. Filling missing values using dropna(), fillna(), replace()*

df**.**replace("Sejial Zambare" , "Rushikesh Vilas Thorat")

Out[41]:

## Timestamp Email Address Name Email Roll PR no

**0** 1/17/2022

12:45:09

[sejal.zambare19@pccoepune.org](mailto:sejal.zambare19@pccoepune.org) Sejal Zambare

[sejal.zambare19@gmail.com](mailto:sejal.zambare19@gmail.com) 359 72026

**1**

1/17/2022

12:45:44

[rushikesh.thorat19@pccoepune.org](mailto:rushikesh.thorat19@pccoepune.org)

Rushikesh Vilas Thorat

[rushikesh.thorat19@pccoepune.org](mailto:rushikesh.thorat19@pccoepune.org) 347 72026

**2** 1/17/2022

12:46:10

[atharv.sontakke19@pccoepune.org](mailto:atharv.sontakke19@pccoepune.org) Atharv

Sontakke

[atharv123sontakke@gmail.com](mailto:atharv123sontakke@gmail.com) 340 72026

**3**

1/17/2022

12:46:21

[amisha.sherekar19@pccoepune.org](mailto:amisha.sherekar19@pccoepune.org)

Amisha Sunil Sherekar

[amisha.sherekar19@pccoepune.org](mailto:amisha.sherekar19@pccoepune.org) 328 72026

**4** 1/17/2022 [saurabh.sawardekar19@pccoepune.org](mailto:saurabh.sawardekar19@pccoepune.org)

12:46:31

Saurabh

Raju Sawardekar

[saurabh.sawardekar19@pccoepune.org](mailto:saurabh.sawardekar19@pccoepune.org) 326 72026

**...** ... ... ... ... ...

**59** 1/20/2022

9:24:40

[pratik.meshram20@pccoepune.org](mailto:pratik.meshram20@pccoepune.org) Pratik Amrut

Meshram

[pratik.meshram20@pccoepune.org](mailto:pratik.meshram20@pccoepune.org) 381 72164

**60**

1/20/2022

9:36:14

[prasad.zore19@pccoepune.org](mailto:prasad.zore19@pccoepune.org) Prasad Zore

[prasad.zore@outlook.com](mailto:prasad.zore@outlook.com) 360 72026

**61** 1/20/2022

9:42:34

[sudhir.varu19@pccoepune.org](mailto:sudhir.varu19@pccoepune.org) SUDHIR

VARU

[sudhirvaru01@gmail.com](mailto:sudhirvaru01@gmail.com) 351 72026

**62**

1/20/2022

10:22:05

[bhagyashree.takale19@pccoepune.org](mailto:bhagyashree.takale19@pccoepune.org)

Bhagyashree

Gorakh Takale

[bbhagyashree002@gmail.com](mailto:bbhagyashree002@gmail.com) 345 72026

**63** 1/20/2022 [sarvesh.waghmare19@pccoepune.org](mailto:sarvesh.waghmare19@pccoepune.org)

10:38:06

Waghmare Sarvesh Jitendra

[sarvesh.waghmare19@pccoepune.org](mailto:sarvesh.waghmare19@pccoepune.org) 356 72026

# 64 rows × 11 columns

In [38]:

df**.**head()

Out[38]:

## Timestamp Email Address Name Email Roll no

**PRN N**

12:45:09 Zambare

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| --- | --- | --- |
| **0** 1/17/2022 [sejal.zambare19@pccoepune.org](mailto:sejal.zambare19@pccoepune.org) Sejal [sejal.zambare19@gmail.com](mailto:sejal.zambare19@gmail.com) | 359 | 7202684 |
| 1/17/2022 Rushikesh  **1** 12:45:44 [rushikesh.thorat19@pccoepune.org](mailto:rushikesh.thorat19@pccoepune.org) Vilas [rushikesh.thorat19@pccoepune.org](mailto:rushikesh.thorat19@pccoepune.org) | 347 | 7202677 |
| **2** 1/17/2022 [atharv.sontakke19@pccoepune.org](mailto:atharv.sontakke19@pccoepune.org) Atharv [atharv123sontakke@gmail.com](mailto:atharv123sontakke@gmail.com) | 340 | 7202674 |
| 1/17/2022 Amisha  **3** 12:46:21 [amisha.sherekar19@pccoepune.org](mailto:amisha.sherekar19@pccoepune.org) Sunil [amisha.sherekar19@pccoepune.org](mailto:amisha.sherekar19@pccoepune.org) | 328 | 7202669 |
| 1/17/2022 Saurabh  **4** 12:46:31 [saurabh.sawardekar19@pccoepune.org](mailto:saurabh.sawardekar19@pccoepune.org) Raju [saurabh.sawardekar19@pccoepune.org](mailto:saurabh.sawardekar19@pccoepune.org) | 326 | 7202668 |

Thorat

12:46:10 Sontakke

Sherekar

Sawardekar

In [ ]:

*# Filling null values in dataset*

In [42]:

*# In order to drop null values from a dataframe, dropna() function is used.*

df**.**dropna()

Out[42]:

## Timestamp Email Address Name Email Roll PR no

**0** 1/17/2022

12:45:09

[sejal.zambare19@pccoepune.org](mailto:sejal.zambare19@pccoepune.org) Sejal Zambare

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Saurabh

Raju Sawardekar

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[sudhirvaru01@gmail.com](mailto:sudhirvaru01@gmail.com) 351 72026

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[bhagyashree.takale19@pccoepune.org](mailto:bhagyashree.takale19@pccoepune.org)

Bhagyashree

Gorakh Takale

[bbhagyashree002@gmail.com](mailto:bbhagyashree002@gmail.com) 345 72026

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Waghmare Sarvesh Jitendra

[sarvesh.waghmare19@pccoepune.org](mailto:sarvesh.waghmare19@pccoepune.org) 356 72026

# 64 rows × 11 columns

In [ ]: