A PROJECT

On

STUDENT DATABASE ANALYSIS USING PYTHON

BACHELOR OF TECHNOLOGY

By

DEPARTMENT OF DATA SCIENCE

SYED TASLEEM AFROZE   21KP1A44A9

Under the esteemed Guidance of

Er. S AKSHAY KUMAR

CS CODENZ

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CS CODENZ

GUDIVADA – 521 323, ANDHRA PRADESH., INDIA

2022-2023

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<u>CERTIFICATE</u>

This is to certify that dissertation entitled **"STUDENT DATABASE ANALYSIS"** submitted by **SYED**

TASLEEM AFROZE (21KP1A44A9) in the **BACHELOR OF TECHNOLOGY** from **CS CODENZ**

Is a record of Bonafide work carried out by them under my guidance and supervision during the year 2022

-2023.

Signature of the Supervisor   **Signature of the HOD**

Er. S AKSHAY KUMAR   **D. KOTESWARA RAO, MTech**

   CS CODENZ   Associate professor & HOD

                                          Data Science, NRIIT

DECLARATION

I **SYED TASLEEM AFROZE (21KP1A44A9)** declared that the dissertation report entitled **"STUDENT DATABASE ANALYSIS"** is no more than 1,00,000 words in length including quotes and exclusive of tables, figures, bibliography, and references.

Roll No	**Name**	**Signature**
21KP1A44A9	SYED TASLEEM AFROZE	_____

Date:

Place:

ACKNOWLEDGEMENT

This report dissertation could not have been written without the support of our guide **Er. S AKSHAY KUMAR, CS CODENZ** who not only served as our superior but also encouraged and challenged us throughout our academic program our foremost thanks goes to him. Without his dissertation would nothave been possible. We appreciate him vast knowledge in many areas, and his insights, suggestions and guidance that helped to shape our research skills

It is needed with a great sense of pleasure and immense sense of gratitude that we acknowledge the help of these individuals. We owe many thanks to many people who helped and supported us during the writing of this report

We are thankful to our project coordinator **Er. S AKSHAY KUMAR, CS CODENZ**, for his continuous support

We express our sincere thanks to our respected for bet valuable suggestion and constant motivation that greatly helped us in successful completion of project We also take the privilege to express our heartfelt gratitude to **Er. S AKSHAY KUMAR, CS CODENZ**

We are thankful to all faculty members for extending their kind cooperation and assistance Finally, we are extremely thankful to our parents and friends for their constant helped moral support

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<u>ABSTRACT</u>

The Primary objective of this "**STUDENTS DATABASE ANALYSIS**" is to collecting the student data from different branches and analyze the data and grouping them based on their marks, age, branch and ranking them based on marks and visualizing the data.

The project is mainly for understanding what is Data analysis and visualization. we perform various Data Visualization and Analysis tasks on the taken Student dataset.

REQUIREMENTS

HARDWARE   REQUIREMENTS

- ➢ Personal Computer / Laptop with RAM (8 GB), ROM (512 GB) and Processor (Ryzen5)
- ➢ Good latency internet access

SOFTWARE   REQUIREMENTS

- ➢ Basic Search Engine (Google)
- ➢ MICROSOFT WORD
- ➢ MICROSOFT EXCEL
- ➢ JUPYTER NOTEBOOK

FUNCTIONAL   REQUIREMENTS

- ➢ Help in manipulating data and easy process.
- ➢ Graphical representation of Datasets

DESCRIPTION

Data Analytics is a process of scrutinizing the data to obtain accurate results. In data analytics the main purpose is extracting the original data from data. In this data analytics we need to perform the major that is data munging.

DATA MUNGING

It is a process of transferring unstructured data into structured format. The goal is to make the data more usable and valuable for analytics or other purposes.

STEPS OF DATA ANALYSIS

1. Collecting the data
2. Cleaning the data
3. Analyzing the data
4. Sharing your results
5. Summary

CODE

1) COLLECTING THE DATA

Pandas - Helps to create a dataset and it is also a library in python.

Pandas Package – It's a group of Panal Data's which are used to analyze the labelled data and relational data.

Series – A series is a method of pandas and labelled data. Series are nothing but columns in Excel sheet.

CREATING SERIES-

```python
import pandas as pd
a=[10,20,30,'a',50]
b=pd.Series(a)
print(b)
```

```
0     10
1     20
2     30
3      a
4     50
dtype: object
```

```python
import pandas as pd
a=[10,20,30,40,50]
b=pd.Series(a)
print(b)
```

```
0     10
1     20
2     30
3     40
4     50
dtype: int64
```

MATPLOTLIB-

Matplotlib is a comprehensive library for creating static, animated, and interactive visualizations in Python. It's widely used for plotting various types of graphs, charts, histograms, scatter plots, and more. Matplotlib is highly customizable, allowing users to control almost every aspect of the visualization, including line styles, colors, labels, fonts, and axes.

```python
import matplotlib.pyplot as plt

# Sample data
x = [1, 2, 3, 4, 5]
y = [2, 3, 5, 7, 11]

# Create a plot
plt.plot(x, y)

# Add title and labels
plt.title('Simple Line Plot')
plt.xlabel('X-axis')
plt.ylabel('Y-axis')

# Display the plot
plt.show()
```

This code will generate a simple line plot with the given data points. Matplotlib offers extensive documentation and examples on its website, which can help users explore its capabilities and learn how to create various types of visualizations

```
Accesing Pandas Series Elements
```

```
WITH POSITION              WITH INDEX
```
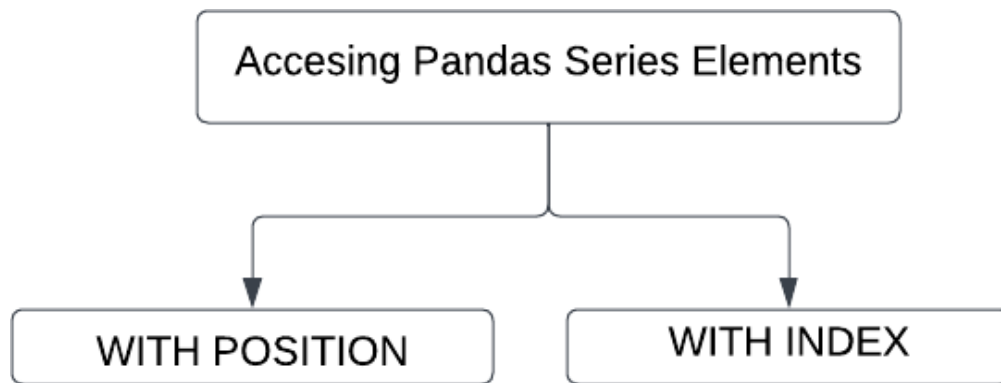
ACCESSING WITH POSITION-

```python
#SLICING
import pandas as pd
a=[10,20,30,40,50]
b=pd.Series(a)
print(b[-2:])
```

```
3    40
4    50
dtype: int64
```

```python
#SLICING
import pandas as pd
a=[10,20,30,40,50]
b=pd.Series(a)
print(b[-4:-2])
```

```
1    20
2    30
dtype: int64
```

```python
import pandas as pd
a=[10,20,30,40,50]
b=pd.Series(a)
print(b[2:])
```

```
2    30
3    40
4    50
dtype: int64
```

ACCESSING WITH INDEX-

```python
import pandas as pd
a=[10,20,'CS',40,50]
b=pd.Series(a,index=['!','@','#','$','%'])
print(b)
print("----------------------------------------------")
print(b['@'])
```

```
!    10
@    20
#    CS
$    40
%    50
dtype: object
----------------------------------------------
20
```

DATAFRAME

A data frame is a 2D data structure in which we store data in the form of tables. [rows x columns]

We can create a table via Data Frame i.e., known as DATASET.

CREATING A DATASET-

```python
#creating empty data set
import pandas as pd
a=pd.DataFrame()
print(a)
```

```
Empty DataFrame
Columns: []
Index: []
```

Creating data set using list-

```python
#creating dataframe by using list
import pandas as pd
a=[10,20,30,40,50]
b=pd.DataFrame(a)
print(b)
```

```
    0
0  10
1  20
2  30
3  40
4  50
```

Creating data set using Dict-

```python
#creating using DICT
import pandas as pd
x=[{'a':10,'b':20,'c':30}]
y=pd.DataFrame(x)
print(y)
```

```
    a    b    c
 0  10   20   30
```

```python
#creating using DICT
import pandas as pd
x=[{'a':10,'b':20,'c':30}]
y=pd.DataFrame(x)
print(type(y))
```

<class 'pandas.core.frame.DataFrame'>

Creating dataset using Series

```python
import pandas as pd
a=[10,20,30,40]
b=pd.Series(a)
c=pd.DataFrame(b)
print(c)
```

```
     0
0   10
1   20
2   30
3   40
```

CREATION OF DATASET-

Data set example

Email address	STUDENT NAME	ROLL NUMBER	FATHER NAME
vennachandana1@gmail.com	Venna Chandana	21KP1A44C5	Venna Ramanareddy
adilakshmi4765@gmail.com	N.Venkatesh	21KP1A4468	N.Manikya Rao
sravankumar7156@gmail.com	Sravan Kumar	21KP1A4488	Rama Chandra Rao
sandeepyeruva1124@gmail.com	Yeruva sandeep reddy	21KP1A44D1	Yeruva Ajay Kumar reddy
sivajibejjanki@gmail.com	B.sivaji	22kp5a4402	B.lakshmaiah
ramyayalabolu123r@gmail.com	Y.Ramya	21KP1A44C8	Y.Anjaiah
charithareddy3914@gmail.com	P.charitha reddy	21KP1A4475	P.Madhava Reddy
gayathripolepalli70@gmail.com	POLEPALLI. GAYATHRI	21KP1A4481	POLEPALLI. GURUBRAHMA CHARI
syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1A44A9	Syed Rahiman
sowjanyathota11@gmail.com	T.SOWJANYA	21KP1A44B6	T.SAMBA SIVA RAO
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podilisarayu6@gmail.com	PODILI LAKSHMISARAYU	21KP1A4480	PODILI RAMESH
shaikkarishma811@gmail.com	shaik karishma	21KP1A4496	SHAIK BAJI
kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1A44C0	Veeraswamy.v
patchachinnu3@gmail.com	Patcha Jaswanth	21KP1A4477	Patcha apparao
manu952041@gmail.com	Pachipulusu Manohar	21KP1A4472	Pachipulusu Prasad
vanukuri.raghava@gmail.com	Raghava	21KP1A44C3	Srinivasa reddy
shaiksakina05@gmail.com	Shaik sameer	21KP1A44A3	Shaik Rahim babu
us465249@gmail.com	S sk usman	21KP1A4492	S sk mastan vali

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import plotly.express as px
Data=pd.read_excel('dsdbx.xlsx') #Reading data from Excel file
print(Data)
```

```
        Timestamp                      Email address  \
0  2023-06-13 14:24:58.772         vennachandana1@gmail.com
1  2023-06-13 14:25:15.609          adilakshmi4765@gmail.com
2  2023-06-13 14:25:50.957         sravankumar7156@gmail.com
3  2023-06-13 14:26:01.824       sandeepyeruva1124@gmail.com
4  2023-06-13 14:26:13.848          sivajibejjanki@gmail.com
5  2023-06-13 14:26:23.424      ramyayalabolu123r@gmail.com
6  2023-06-13 14:27:05.330       charithareddy3914@gmail.com
7  2023-06-13 14:27:16.973    gayathripolepalli70@gmail.com
```

```
8  2023-06-13 14:27:41.072            syedtasleem07@gmail.com
9  2023-06-13 14:28:10.012            sowjanyathota11@gmail.com
10 2023-06-13 14:28:10.559            tammasahithi1@gmail.com
11 2023-06-13 14:28:34.026            podilisarayu6@gmail.com
12 2023-06-13 14:28:43.092            shaikkarishma811@gmail.com
13 2023-06-13 14:28:57.412            kumarvalaparla890@gmail.com
14 2023-06-13 14:30:05.091            patchachinnu3@gmail.com
15 2023-06-13 14:30:05.577            manu952041@gmail.com
16 2023-06-13 14:30:07.913            vanukuri.raghava@gmail.com
17 2023-06-13 14:30:57.744            shaiksakina05@gmail.com
18 2023-06-13 14:33:16.842            us465249@gmail.com
19 2023-06-13 14:36:46.844            vallu.srinu756939@gmail.com
20 2023-06-13 14:34:05.142 undelachandraobulareddy@gmail.com21
2023-06-13 14:32:17.269            farukh.786syed@gmail.com
22 2023-06-13 14:33:08.038    anushayalabolu12@gmail.com 23
2023-06-13 14:33:16.147            madhulathasure9@gmail.com
24 2023-06-13 14:34:00.504 thammisettysrikanthraj9@gmail.com25
2023-06-13 14:34:24.599            shiakmobin2002@gmail.com
26 2023-06-13 14:34:24.985            abdulkhadar6842@gmail.com
27 2023-06-13 14:34:31.602            ravuakshaya@gmail.com
28 2023-06-13 14:34:41.989    hemasanjushasanikommu828@gmail.com
29 2023-06-13 14:34:52.277            ynagasasikumar@gmail.com
30 2023-06-13 14:35:26.194    rahamtunnisashaik09@gmail.com
31 2023-06-13 14:37:08.022    harikabangaram313@gmail.com
32 2023-06-13 14:37:44.545            indupriya72216@gmail.com
33 2023-06-13 14:37:53.042    bhavyasrisajja2003@gmail.com
34 2023-06-13 14:38:20.561 sudhamshavejendla@gmail.com 35
2023-06-13 14:39:17.885            bhanuthanirru@gmail.com
36 2023-06-13 14:40:40.869    nikitharayapati9@gmail.com
37 2023-06-13 14:44:05.463            indhupotla123@gmail.com
38 2023-06-13 14:44:45.168            abdulabdul22070@gmail.com
39 2023-06-13 14:45:56.606            jaffershaik718@gmail.com
40 2023-06-13 14:50:28.282            rabbanishaik7356@gmail.com
41 2023-06-13 15:01:15.615            reshmayalamanchi@gmail.com
42 2023-06-13 15:04:23.806    thiriveedhinagajyothi@gmail.com
43 2023-06-13 15:16:34.142            paladugudurga1@gmail.com
44 2023-06-13 17:37:00.290            saidashaik371@gmail.com
45 2023-06-13 20:39:54.489            mvkbn1312@gmail.com
46 2023-06-13 20:49:03.330 nrajasambasivarao@gmail.com 47
2023-06-14 09:22:24.620            saisairam068@gmail.com
48 2023-06-14 09:34:41.202    sriharshanallabothu@gmail.com
49 2023-06-14 09:37:41.272            bhuvanstarpuli@gmail.com
50 2023-06-14 09:37:48.696            arundathi0508@gmail.com
51 2023-06-14 09:38:10.231            chinnivignesh144@gmail.com
```

	STUDENT NAME	ROLL NUMBER	FATHER NAME
0	Venna Chandana	21KP1A44C5	Venna Ramanareddy
1	N.Venkatesh	21KP1A4468	N.Manikya Rao
2	Sravan Kumar	21KP1A4488	Rama Chandra Rao
3	Yeruva sandeep reddy	21KP1A44D1	Yeruva Ajay Kumar reddy
4	B.sivaji	22kp5a4402	B.lakshmaiah
5	Y.Ramya	21KP1A44C8	Y.Anjaiah
6	P.charitha reddy	21KP1A4475	P.Madhava Reddy
7	POLEPALLI. GAYATHRI	21KP1A4481	POLEPALLI. GURUBRAHMA CHARI
8	Syed Tasleem Afroze	21KP1A44A9	Syed Rahiman
9	T.SOWJANYA	21KP1A44B6	T.SAMBA SIVA RAO
10	Tamma Sahithi	21KP1A44B0	Tamma krishna reddy

```
11           PODILI LAKSHMISARAYU   21KP1A4480              PODILI RAMESH
12                 shaik karishma   21KP1A4496                 SHAIK BAJI
13      Venkata Aravind Kumar.V     21KP1A44C0               Veeraswamy.v
14                Patcha Jaswanth   21KP1A4477              Patcha apparao
15            Pachipulusu Manohar   21KP1A4472          Pachipulusu Prasad
16                        Raghava   21KP1A44C3             Srinivasa reddy
17                   Shaik sameer   21KP1A44A3           Shaik Rahim babu
18                    S sk usman   21KP1A4492            S sk mastan vali
19  Vallu Srinu Siva Subrahmanyam   21KP1A44C1          Vallu Srinivasa Rao
20     Undela Chandra Obula Reddy   21KP1A44B9   Undela Chinna Obula Reddy
21                    SYED.FARUKH   21KP1A44A7                  SYED.BAJI
22                Anusha yalabolu   21KP1A44C7             Chinna anjayya
23               SURE. MADHULATHA   21KP1A44A4            SURE.VISWANADHAM
24                     T.Srikanth   21KP1A44B5                     T.vasu
25                    Shaikmobin   21KP1A4497            shaik karimullah
26             Shaik.Abdul Khadar   21KP1A4493               Shaik.Kareem
27                   Ravu.akshaya   21KP1A4485             Ravu.srinivasrao
28                  hema sanjusha   21KP1A4491                 musalareddy
29            Y Naga Sasi Kumar   21KP1A44D0            Y Rama mohanarao
30             Shaik Rahamtunnisa   21KP1A44A0         Shaik.mahaboobjani
31                         Harika   22KP5A4401             A.Subramanyam
32              Indu Priya Patcha   21KP1A4476           Appa rao Patcha
33                     Bhavya sri   21KP1A4490              Mohan krishna
34   Vejendla Devi Sri Sudhamsha   21KP1A44C4      Vejendla Srinivass Rao
35   Thanirru Bhanu venkata prasad   21KP1A44B2          T sathyanarayana
36              Nikhitha Rayapati   21KP1A4487         Rayapati hanumathrao
37                    indhu priya   21KP1A4483            Lakshmanarayana
38            Syed.Abdul Rehaman   21KP1A44A6          Syed.Meera Sharif
39                   Jaffer shaik   21KP1A4495              shaik.LaiLaha
40                  SHAIK RABBANI   21KP1A4499      SHAIK MOHAMMAD HANIF
41              Reshma yalamanchi   21KP1A44C9     Yalamanchi  subba Rao
42                 T. Nagajyothi   21KP1A44B7                T. Venkayya
43                  P. Durga Sri   21KP1A4473          P. Amareswara rao
44       SHAIK SAIDA ANWAR BASHA   21KP1A44A2          SHAIK KUDHAN VALI
45          R.M.V.K.Brahma Naidu   21KP1A4489                 Yedukondalu
46      Narra Raja Samba Siva Rao   21KP1A4471          Narra SrinivasaRao
47                         Sairam   21kp1a44b4            Venkata subbiah
48          Nallabothu. Sri Harsha   21KP1A4469    Nallabothu. Anjaneyulu
49              Puli bhuvaneswar   21KP1A4484          Puli mallikarjuna
50           PANDA UMA ARUNDATHI   21KP1A4474       PANDA NARAYANA RAO
51    chinni vignesh teja yadav   21KP1A44C6       Chinni Pratap Kumar

           MOTHER NAME COURSE   CGPA   AGE  \
0       Venna Lakshmidevi     DS      8    19
1         N.Sri Lakshmi      CSE     83    19
2        Venkateswaramma     MECH     7    20
3     Yeruva Anjali Devi     CSE    9.5    20
4              B.veramma     DS    0.72    23
5       Y Lakshmi Rajyam     DS      80    19
6               P.Kavitha     DS      70    19
7      POLEPALLI.SRIDEVI     DS      10    19
8           Syed Naseema    MECH      8    19
9         T.ARUNA KUMARI     DS       8    19
10      Tamma Padmavathi     DS     7.7    19
11     PODILI ADILAKSHMI     DS     7.5    19
12        SHAIK  KHADRUN     DS       9    19
13             Lakshmi.v     DS    0.98    20
14        Patcha sukanya    CSE    0.99    20
```

```
15        Pachipulusu Bhavani    MECH    8.5    19
16                     Jyothi      DS      7    19
17                Shaik Raziya      DS     80    20
18                   Mahabobba      DS     50    19
19          Vallu Surya kumari      DS     73    20
20           Undela GuruLakshmi     DS    9.2    20
21           SYED.SARTHAJ BEGUM     DS    0.7    19
22          Lakshmi narayanama      DS     75    19
23            SURE.SAI LAKSHMI      DS     10    20
24                      T.jaya      DS   0.75    19
25                Shaik rihana      DS    8.8    21
26                Shaik.Farjana    ECE      8    20
27          Ravu.aruna kumari      DS     80    19
28                 sivaparvathi    CSE     73    18h
29                   Y Lalitha      DS    9.2    20
30                 Shaik.munni      DS      8    18
31           A.Dhana Bhagyam       DS     75    19
32             Renuka Patcha       DS   0.75    18
33                   Usha rani      DS     70    19
34    Vejendla Laxmi Prasanna     CSE     70    19
35                T rama devi      DS    9.6    19
36         Rayapati malleswari     DS     80    19
37                     Sujatha    CSE     72    19
38           Bandi.Krishna veni    DS     90    20
39           shaik.Ramjan bee     CSE     7O    19
40               SHAIK MALIN       DS    9.5    21
41          Yalamanchi sunitha     DS     75    19
42             T. Ramanjamma       DS     75    19
43            P. Seshu Kumari      DS     80    20
44       SHAIK SAIDA HUSSANBI      DS     80    20
45                    Nirmala      DS      7    20
46             Narra Ramadevi      DS    7.5    19
47                  Ravanamma    CSE     10    19
48          Nallabothu. Anitha     DS     90    21
49             Puli ramadevi      DS    8.3    21
50    PANDA PRASANNA LAKSHMI       DS     87    19
51             Chinni Bhargavi     DS     80    19

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0             vennachandana1@gmail.com
1             adilakshmi4765@gmail.com
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4             sivajibejjanki@gmail.com
5          ramyayalabolu123r@gmail.com
6           charithareddy3914@gmail.com
7         gayathripolepalli70@gmail.com
8             syedtasleem07@gmail.com
9            sowjanyathota11@gmail.com
10            tammasahithi1@gmail.com
11             Podilisarayu6@gmail.com
12          shaikkarishma811@gmail.com
13        Kumarvalaparla890@gmail.com
14             Patchachinnu@gmail.com
15              manu952041@gmail.com
16          vanukuri.raghava@gmail.com
17           Shaiksakina05@gmail.com
18              us465249@gmail.com
```

```
19              vallu.srinu756939@gmail.com
20       undelachandraobulareddy@gmail.com
21              farukh.786syed@gmail.com
22              anushayalabolu12@gmail.com
23              madhulathasure9@gmail.com
24       thammisettysrikanthraj9@gmail.com
25              mobinsk9966@gmali.com
26              abdulkhadar6842@gmail.com
27              ravuakshaya@gmail.com
28       hemasanjushasanikommu828@gmail.com
29              ynagasasikumar@gmail.com
30       rahamtunnisashaik09@gmail.com
31              harikaavala5@gmail.com
32              indupriya72216@gmail.com
33       bhavyasrisajja2003@gmail.com
34         sudhamshavejendla@gmail.com
35              bhanuthanirru@gmail.com
36         nikitharayapati9@gmail.com
37              indhupotla123@gmail.com
38              abdulabdul22070@gmail.com
39              jaffershaik718@gmail.com
40              rabbanishaik7356@gmail.com
41         reshmayalamanchi@gmail.com
42       thiriveedhinagajyothi@gmail.com
43              paladugudurga1@gmail.com
44              Saidashaik371@gmail.com
45              mvkbn1312@gmail.com
46         nrajasambasivarao@gmail.com
47              saisairam068@gmail.com
48       Sriharshanallabothu@gmail.com
49              bhuvanstarpuli@gmail.com
50              arundathi0508@gmail.com
51              chinnivignesh144@gmail.com


                                       BRANCH CURRENT SEMISTER  \
0                                 Data science             2-2
1                                       CSE-DS            II-II
2                                         mech                4
3                                          CSE             2-3
4                             Computer science             2-2
5                                          CSD             2-2
6                                          CSD             2.2
7                                 Data Science             2-2
8                                           DS             2-2
9                                 DATA SCIENCE             2-2
10                         CSE (Data science)             2-2
11                                DATA SCIENCE             2-2
12                                          ds             2-2
13                                Data Science             2-2
14                                Data science             2-2
15                                         NaN             2-2
16                                Data science             2-2
17                                          DS             2-2
18                                          DS             2-2
19   Computer Science Engineering& Data Science                4
20                            Computer Science             2-2
21                                          DS             2-2
22                                         CSD             2-2
```

20

23	Data science	2-2
24	Data Science	2-2
25	Ds	2.2
26	NaN	2-2
27	Ds	2.2
28	cse	2-2
29	NaN	2-2
30	Data science	2-2
31	Data science	2-2
32	Data Science	2-2
33	Ds	2-2
34	Cse- Data Science	2_2
35	NaN	2-2
36	Ds	2-2
37	cse	2-2
38	DS	2-2
39	cse	2nd
40	CSD	2-2
41	DS	4
42	DS	4
43	CSD(Data Science)	2-2
44	DATASCIENCE	2-2
45	Data science	2-2
46	CSD (Data science)	4
47	Da	2-2
48	CSD	2-2
49	Data science	2.2
50	CSD	2-2
51	Data Science	4th semester

	AADHAAR NO
0	636336922883
1	602515258256
2	930319053088
3	576154990146
4	895444662410
5	724574588425
6	810177524502
7	721819168061
8	617020354793
9	338666948901
10	685349832128
11	458689741091
12	663048521599
13	510305345824
14	744020413963
15	559366114423
16	424973081348
17	529261464345
18	568753875709
19	************
20	693621780842
21	764320730678
22	830785066037
23	776486062608
24	673112205183
25	904355656468
26	334708289154

```
27     544305783128
28     422314863763
29     448172496292
30     406976169351
31     574930568520
32     573041880949
33     274736890047
34     587480445790
35     357228202835
36     963360828294
37     524345891620
38     347853509974
39     912229276699
40     205933956204
41     742366316353
42     330477145525
43     692162661608
44     466722650274
45   2387 7088 9424
46     835457902826
47     746109575146
48     208611060176
49     950519207474
50     652650486629
51     639534870436
```

PREPROCESSING THE DATA

```
Data.info()
Duplic=Data.notnull()
print(Duplic)
Duplicates=Data[Data.duplicated()]
Data
```

```
 <class 'pandas.core.frame.DataFrame'>
RangeIndex: 52 entries, 0 to 51
Data columns (total 13 columns):
 #   Column            Non-Null Count  Dtype
---  ------            --------------  -----
 0   Timestamp         52 non-null     datetime64[ns]
 1   Email address     52 non-null     object
 2   STUDENT NAME      52 non-null     object
 3   ROLL NUMBER       52 non-null     object
 4   FATHER NAME       52 non-null     object
 5   MOTHER NAME       52 non-null     object
 6   COURSE            52 non-null     object
 7   CGPA              52 non-null     object
 8   AGE               52 non-null     object
 9   EMAIL             52 non-null     object
 10  BRANCH            48 non-null     object
 11  CURRENT SEMISTER  52 non-null     object
 12  AADHAAR NO        52 non-null     object
dtypes: datetime64[ns](1), object(12)
memory usage: 5.4+ KB
```

	Timestamp	Email address	STUDENT NAME	ROLL NUMBER	FATHER NAME \
0	True	True	True	True	True
1	True	True	True	True	True
2	True	True	True	True	True
3	True	True	True	True	True
4	True	True	True	True	True
5	True	True	True	True	True
6	True	True	True	True	True
7	True	True	True	True	True
8	True	True	True	True	True
9	True	True	True	True	True
10	True	True	True	True	True
11	True	True	True	True	True
12	True	True	True	True	True
13	True	True	True	True	True
14	True	True	True	True	True
15	True	True	True	True	True
16	True	True	True	True	True

17	True	True	True	True	True
18	True	True	True	True	True
19	True	True	True	True	True
20	True	True	True	True	True
21	True	True	True	True	True
22	True	True	True	True	True
23	True	True	True	True	True
24	True	True	True	True	True
25	True	True	True	True	True
26	True	True	True	True	True
27	True	True	True	True	True
28	True	True	True	True	True
29	True	True	True	True	True
30	True	True	True	True	True
31	True	True	True	True	True
32	True	True	True	True	True
33	True	True	True	True	True
34	True	True	True	True	True
35	True	True	True	True	True
36	True	True	True	True	True
37	True	True	True	True	True
38	True	True	True	True	True
39	True	True	True	True	True
40	True	True	True	True	True
41	True	True	True	True	True
42	True	True	True	True	True
43	True	True	True	True	True
44	True	True	True	True	True
45	True	True	True	True	True
46	True	True	True	True	True
47	True	True	True	True	True
48	True	True	True	True	True
49	True	True	True	True	True
50	True	True	True	True	True
51	True	True	True	True	True

	MOTHER NAME	COURSE	CGPA	AGE	EMAIL	BRANCH	CURRENT SEMISTER \
0	True	True	True	True	True	True	True
1	True	True	True	True	True	True	True
2	True	True	True	True	True	True	True
3	True	True	True	True	True	True	True
4	True	True	True	True	True	True	True
5	True	True	True	True	True	True	True
6	True	True	True	True	True	True	True
7	True	True	True	True	True	True	True
8	True	True	True	True	True	True	True
9	True	True	True	True	True	True	True
10	True	True	True	True	True	True	True

11	True	True	True	True	True	True	True
12	True	True	True	True	True	True	True
13	True	True	True	True	True	True	True
14	True	True	True	True	True	True	True
15	True	True	True	True	True	False	True
16	True	True	True	True	True	True	True
17	True	True	True	True	True	True	True
18	True	True	True	True	True	True	True
19	True	True	True	True	True	True	True
20	True	True	True	True	True	True	True
21	True	True	True	True	True	True	True
22	True	True	True	True	True	True	True
23	True	True	True	True	True	True	True
24	True	True	True	True	True	True	True
25	True	True	True	True	True	True	True
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27	True	True	True	True	True	True	True
28	True	True	True	True	True	True	True
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34	True	True	True	True	True	True	True
35	True	True	True	True	True	False	True
36	True	True	True	True	True	True	True
37	True	True	True	True	True	True	True
38	True	True	True	True	True	True	True
39	True	True	True	True	True	True	True
40	True	True	True	True	True	True	True
41	True	True	True	True	True	True	True
42	True	True	True	True	True	True	True
43	True	True	True	True	True	True	True
44	True	True	True	True	True	True	True
45	True	True	True	True	True	True	True
46	True	True	True	True	True	True	True
47	True	True	True	True	True	True	True
48	True	True	True	True	True	True	True
49	True	True	True	True	True	True	True
50	True	True	True	True	True	True	True
51	True	True	True	True	True	True	True

	AADHAAR NO
0	True
1	True
2	True
3	True
4	True

```
5          True
6          True
7          True
8          True
9          True
10         True
11         True
12         True
13         True
14         True
15         True
16         True
17         True
18         True
19         True
20         True
21         True
22         True
23         True
24         True
25         True
26         True
27         True
28         True
29         True
30         True
31         True
32         True
33         True
34         True
35         True
36         True
37         True
38         True
39         True
40         True
41         True
42         True
43         True
44         True
45         True
46         True
47         True
48         True
49         True
50         True
51         True
```

	Time stamp	Email address	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	EMAIL	BRANCH	CURRENT SEMISTER	AADHAAR NO
0	2023-06-13 14:24:58.772	vennachandana1@gmail.com	Venna Chandana	21KP1A44C5	Venna Ramanareddy	Venna Lakshmidevi	DS	8	19	vennachandana1@gmail.com	Data science	2-2	6363369228 83
1	2023-06-13 14:25:15.609	adilakshmi4765@gmail.com	N.Venkatesh	21KP1A4468	N.Manikya Rao	N.Sri Lakshmi	CSE	83	19	adilakshmi4765@gmail.com	CSE-DS	II-II	6025152582 56
2	2023-06-13 14:25:50.957	sravankumar7156@gmail.com	Sravan Kumar	21KP1A4488	Rama Chandra Rao	Venkates waramma	MECH	7	20	sravankumar7156@gmail.com	mech	4	9303190530 88
3	2023-06-13 14:26:01.824	sandeepyeruva1124@gmail.com	Yeruva sandeep reddy	21KP1A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CSE	9.5	20	sandeepyeruva1124@gmail.com	CSE	2-3	5761549901 46
4	2023-06-13 14:26:13.848	sivajibejjanki@gmail.com	B.sivaji	22kp5a4402	B.lakshmaiah	B.veramma	DS	0.72	23	sivajibejjanki@gmail.com	Computer science	2-2	8954446624 10
5	2023-06-13 14:26:23.424	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	80	19	ramyayalabolu123r@gmail.com	CSD	2-2	7245745884 25
6	2023-06-13 14:27:05.330	charithareddy3914@gmail.com	P.charitha reddy	21KP1A4475	P.Madhava Reddy	P.Kavitha	DS	70	19	charithareddy3914@gmail.com	CSD	2.2	8101775245 02
7	2023-06-13 14:27:16.973	gayathripolepalli70@gmail.com	POLEPALLI.GAYATHRI	21KP1A4481	POLEPALLI. GURUBRAHMA CHARI	POLEPALLI.SRI DEVI	DS	10	19	gayathripolepalli70@gmail.com	Data Science	2-2	7218191680 61

	Time stamp	Email address	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	EMAIL	BRANCH	CURRENT SEMISTER	AADHAAR NO
8	2023-06-13 14:27:41.072	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1A44A9	Syed Rahiman	Syed Naseema	MECH	8	19	syedtasleem07@gmail.com	DS	2-2	6170203547 93
9	2023-06-13 14:28:10.012	sowjanyathota11@gmail.com	T.SOWJANYA	21KP1A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8	19	sowjanyathota11@gmail.com	DATA SCIENCE	2-2	3386669489 01
10	2023-06-13 14:28:10.559	tammasahithi1@gmail.com	Tamma Sahithi	21KP1A44B0	Tamma krishna reddy	Tamma Padmavathi	DS	7.7	19	tammasahithi1@gmail.com	CSE (Data science)	2-2	6853498321 28
11	2023-06-13 14:28:34.026	podilisarayu6@gmail.com	PODILI LAKSHMISARAYU	21KP1A4480	PODILI RAMESH	PODILI ADILAKSHMI	DS	7.5	19	Podilisarayu6@gmail.com	DATA SCIENCE	2-2	4586897410 91
12	2023-06-13 14:28:43.092	shaikkarishma811@gmail.com	shaik karishma	21KP1A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9	19	shaikkarishma811@gmail.com	ds	2-2	6630485215 99
13	2023-06-13 14:28:57.412	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1A44C0	Veeraswamy.v	Lakshmi.v	DS	0.98	20	Kumarvalaparla890@gmail.com	Data Science	2-2	5103053458 24
14	2023-06-13 14:30:05.091	patchachinnu3@gmail.com	Patcha Jaswanth	21KP1A4477	Patcha apparao	Patcha sukanya	CSE	0.99	20	Patchachinnu@gmail.com	Data science	2-2	7440204139 63
15	2023-06-13 14:30:05.577	manu952041@gmail.com	Pachipulusu Manohar	21KP1A4472	Pachipulusu Prasad	Pachipulusu Bhavani	MECH	8.5	19	manu952041@gmail.com	NaN	2-2	5593661144 23

	Time stamp	Email address	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	EMAIL	BRANCH	CURRENT SEMISTER	AADHAAR NO
16	2023-06-13 14:30:07.913	vanukuri.raghava@gmail.com	Raghava	21KP1A44C3	Srinivasa reddy	Jyothi	DS	7	19	vanukuri.raghava@gmail.com	Data science	2-2	4249730813 48
17	2023-06-13 14:30:57.744	shaiksakina05@gmail.com	Shaik sameer	21KP1A44A3	Shaik Rahim babu	Shaik Raziya	DS	80	20	Shaiksakina05@gmail.com	DS	2-2	5292614643 45
18	2023-06-13 14:33:16.842	us465249@gmail.com	S sk usman	21KP1A4492	S sk mastan vali	Mahaboba	DS	50	19	us465249@gmail.com	DS	2-2	5687538757 09
19	2023-06-13 14:36:46.844	vallu.srinu756939@gmail.com	Vallu Srinu Siva Subrahmanyam	21KP1A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73	20	vallu.srinu756939@gmail.com	Computer Science Engineering& Data Science	4	***************
20	2023-06-13 14:34:05.142	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy	21KP1A44B9	Undela Chinna Obula Reddy	Undela GuruLakshmi	DS	9.2	20	undelachandraobulareddy@gmail.com	Computer Science	2-2	6936217808 42
21	2023-06-13 14:32:17.269	farukh.786syed@gmail.com	SYED.FARUKH	21KP1A44A7	SYED.BAJI	SYED.SARTHAJ BEGUM	DS	0.7	19	farukh.786syed@gmail.com	DS	2-2	7643207306 78
22	2023-06-13 14:33:08.038	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1A44C7	Chinna anjayya	Lakshmi narayana ma	DS	75	19	anushayalabolu12@gmail.com	CSD	2-2	8307850660 37
23	2023-06-13 14:33:16.147	madhulathasure9@gmail.com	SURE.MADHULATHA	21KP1A44A4	SURE.VISWANADHAM	SURE.SAI LAKSHMI	DS	10	20	madhulathasure9@gmail.com	Data science	2-2	7764860626 08

	Time stamp	Email address	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	EMAIL	BRANCH	CURRENT SEMISTER	AADHAAR NO
24	2023-06-13 14:34:00.504	thammisettysrikanthraj9@gmail.com	T.Srikanth	21KP1A44B5	T.vasu	T.jaya	DS	0.75	19	thammisettysrikanthraj9@gmail.com	Data Science	2-2	67311 22051 83
25	2023-06-13 14:34:24.599	shiakmobin2002@gmail.com	Shaikmobin	21KP1A4497	shaik karimullah	Shaik rihana	DS	8.8	21	mobinsk9966@gmali.com	Ds	2.2	90435 56564 68
26	2023-06-13 14:34:24.985	abdulkhadar6842@gmail.com	Shaik.Abdul Khadar	21KP1A4493	Shaik.Kareem	Shaik.Farjana	ECE	8	20	abdulkhadar6842@gmail.com	NaN	2-2	33470 82891 54
27	2023-06-13 14:34:31.602	ravuakshaya@gmail.com	Ravu.akshaya	21KP1A4485	Ravu.srinivasrao	Ravu.aruna kumari	DS	80	19	ravuakshaya@gmail.com	Ds	2.2	54430 57831 28
28	2023-06-13 14:34:41.989	hemasanjushasanikommu828@gmail.com	hema sanjusha	21KP1A4491	musalareddy	sivaparvathi	CSE	73	18h	hemasanjushasanikommu828@gmail.com	cse	2-2	42231 48637 63
29	2023-06-13 14:34:52.277	ynagasasikumar@gmail.com	Y Naga Sasi Kumar	21KP1A44D0	Y Rama mohanarao	Y Lalitha	DS	9.2	20	ynagasasikumar@gmail.com	NaN	2-2	44817 24962 92
30	2023-06-13 14:35:26.194	rahamtunnisashaik09@gmail.com	Shaik Rahamtunnisa	21KP1A44A0	Shaik.mahaboobjani	Shaik.munni	DS	8	18	rahamtunnisashaik09@gmail.com	Data science	2-2	40697 61693 51
31	2023-06-13 14:37:08.022	harikabangaram313@gmail.com	Harika	22KP5A4401	A.Subramanyam	A.Dhana Bhagyam	DS	75	19	harikaavala5@gmail.com	Data science	2-2	57493 05685 20

	Time stamp	Email address	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	EMAIL	BRANCH	CURRENT SEMISTER	AADHAAR NO
3 2	2023-06-13 14:37:44.545	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A4476	Appa rao Patcha	Renuka Patcha	DS	0.75	18	indupriya72216@gmail.com	Data Science	2-2	57304 18809 49
3 3	2023-06-13 14:37:53.042	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1A4490	Mohan krishna	Usha rani	DS	70	19	bhavyasrisajja2003@gmail.com	Ds	2-2	27473 68900 47
3 4	2023-06-13 14:38:20.561	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CSE	70	19	sudhamshavejendla@gmail.com	Cse-Data Science	2_2	58748 04457 90
3 5	2023-06-13 14:39:17.885	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1A44B2	T sathyanarayana	T rama devi	DS	9.6	19	bhanuthanirru@gmail.com	NaN	2-2	35722 82028 35
3 6	2023-06-13 14:40:40.869	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1A4487	Rayapati hanumathrao	Rayapati malleswari	DS	80	19	nikitharayapati9@gmail.com	Ds	2-2	96336 08282 94
3 7	2023-06-13 14:44:05.463	indhupotla123@gmail.com	indhu priya	21KP1A4483	Lakshmanarayana	Sujatha	CSE	72	19	indhupotla123@gmail.com	cse	2-2	52434 58916 20
3 8	2023-06-13 14:44:45.168	abdulabdul22070@gmail.com	Syed.Abdul Rehaman	21KP1A44A6	Syed.Meera Sharif	Bandi.Krishna veni	DS	90	20	abdulabdul22070@gmail.com	DS	2-2	34785 35099 74
3 9	2023-06-13 14:45:56.606	jaffershaik718@gmail.com	Jaffer shaik	21KP1A4495	shaik.LaiLaha	shaik.Ramjan bee	CSE	7O	19	jaffershaik718@gmail.com	cse	2nd	91222 92766 99

	Time stamp	Email address	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	EMAIL	BRANCH	CURRENT SEMISTER	AADHAAR NO
4 0	2023-06-13 14:50:28.282	rabbanishaik7356@gmail.com	SHAIK RABBANI	21KP1A4499	SHAIK MOHAMMAD HANIF	SHAIK MALIN	DS	9.5	21	rabbanishaik7356@gmail.com	CSD	2-2	2059339562 04
4 1	2023-06-13 15:01:15.615	reshmayalamanchi@gmail.com	Reshma yalamanchi	21KP1A44C9	Yalamanchi subba Rao	Yalamanchi sunitha	DS	75	19	reshmayalamanchi@gmail.com	DS	4	7423663163 53
4 2	2023-06-13 15:04:23.806	thiriveedhinagajyothi@gmail.com	T. Nagajyothi	21KP1A44B7	T. Venkayya	T. Ramanjamma	DS	75	19	thiriveedhinagajyothi@gmail.com	DS	4	3304771455 25
4 3	2023-06-13 15:16:34.142	paladugudurga1@gmail.com	P. Durga Sri	21KP1A4473	P. Amareswara rao	P. Seshu Kumari	DS	80	20	paladugudurga1@gmail.com	CSD(Data Science)	2-2	6921626616 08
4 4	2023-06-13 17:37:00.290	saidashaik371@gmail.com	SHAIK SAIDA ANWAR BASHA	21KP1A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSAN BI	DS	80	20	Saidashaik371@gmail.com	DATA SCIENCE	2-2	4667226502 74
4 5	2023-06-13 20:39:54.489	mvkbn1312@gmail.com	R.M.V.K.Brahma Naidu	21KP1A4489	Yedukondalu	Nirmala	DS	7	20	mvkbn1312@gmail.com	Data science	2-2	2387 7088 9424
4 6	2023-06-13 20:49:03.330	nrajasambasivarao@gmail.com	Narra Raja Samba Siva Rao	21KP1A4471	Narra SrinivasaRao	Narra Ramadevi	DS	7.5	19	nrajasambasivarao@gmail.com	CSD (Data science)	4	8354579028 26
4 7	2023-06-14 09:22:24.620	saisairam068@gmail.com	Sairam	21kp1a44b4	Venkata subbiah	Ravanamma	CSE	10	19	saisairam068@gmail.com	Da	2-2	7461095751 46

	Time stamp	Email address	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	EMAIL	BRANCH	CURRENT SEMISTER	AADHAAR NO
4 8	2023-06-14 09:34:41.202	sriharshanallabothu@gmail.com	Nallabothu. Sri Harsha	21KP1A4469	Nallabothu. Anjaneyulu	Nallabothu. Anitha	DS	90	21	Sriharshanallabothu@gmail.com	CSD	2-2	2086110601 76
4 9	2023-06-14 09:37:41.272	bhuvanstarpuli@gmail.com	Puli bhuvaneswar	21KP1A4484	Puli mallikarjuna	Puli ramadevi	DS	8.3	21	bhuvanstarpuli@gmail.com	Data science	2.2	9505192074 74
5 0	2023-06-14 09:37:48.696	arundathi0508@gmail.com	PANDA UMA ARUNDATHI	21KP1A4474	PANDA NARAYANA RAO	PANDA PRASANNA LAKSHMI	DS	87	19	arundathi0508@gmail.com	CSD	2-2	6526504866 29
5 1	2023-06-14 09:38:10.231	chinnivignesh144@gmail.com	chinni vignesh teja yadav	21KP1A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	80	19	chinnivignesh144@gmail.com	Data Science	4th semester	6395348704 36

```
Data.isnull().sum()
```

```
Email address       0
STUDENT NAME        0
ROLL NUMBER         0
FATHER NAME         0
MOTHER NAME         0
COURSE              0
CGPA                0
AGE                 0
BRANCH              4
CURRENT SEMISTER    0
AADHAAR NO          0
dtype: int64
```

```
Data.fillna('Data Science',inplace=True)
print(Data.info())
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 52 entries, 0 to 51
Data columns (total 11 columns):
 #   Column            Non-Null Count  Dtype
---  ------            --------------  -----
 0   Email address     52 non-null     object
 1   STUDENT NAME      52 non-null     object
 2   ROLL NUMBER       52 non-null     object
 3   FATHER NAME       52 non-null     object
 4   MOTHER NAME       52 non-null     object
 5   COURSE            52 non-null     object
 6   CGPA              52 non-null     object
 7   AGE               52 non-null     object
 8   BRANCH            52 non-null     object
 9   CURRENT SEMISTER  52 non-null     object
 10  AADHAAR NO        52 non-null     object
dtypes: object(11)
memory usage: 4.6+ KB
None
```

```
Data.shape
```

```
(52, 11)
```

```
Data.columns
```

```
Index(['Email address', 'STUDENT NAME', 'ROLL NUMBER', 'FATHER NAME',
       'MOTHER NAME', 'COURSE', 'CGPA', 'AGE', 'BRANCH', 'CURRENT SEMISTER',
       'AADHAAR NO'],
      dtype='object')
```

```
Data.rename(columns={'Email address':'Gmail','CURRENT
SEMISTER':'SEMISTER','AADHAAR NO':'UIDAI NO'},inplace=True)
print(Data.columns)
```

```
Index(['Gmail', 'STUDENT NAME', 'ROLL NUMBER', 'FATHER NAME', 'MOTHER NAME',
'COURSE', 'CGPA', 'AGE', 'BRANCH', 'SEMISTER', 'UIDAI NO'],
dtype='object')
```

```
Data['CGPA']
```

```
0        8
1       83
2        7
3      9.5
4     0.72
5       80
6       70
7       10
8        8
9        8
10     7.7
11     7.5
12       9
13    0.98
14    0.99
15     8.5
16       7
17      80
18      50
19      73
20     9.2
21     0.7
22      75
23      10
24    0.75
25     8.8
26       8
27      80
28      73
29     9.2
30       8
31      75
32    0.75
33      70
34      70
35     9.6
36      80
37      72
```

```
38       90
39       7O
40      9.5
41       75
42       75
43       80
44       80
45        7
46      7.5
47       10
48       90
49      8.3
50       87
51       80
Name: CGPA, dtype: object
```

```
Data.replace({'7O':70},inplace=True)
Data
```

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	A G E	BRA NCH	SEMIST ER	UID AI NO	
0	vennachandana1@gm ail.com	Venna Chandana	21KP1 A44C5	Venna Ramanared dy	Venna Lakshmide vi	DS	8. 00	19	Data science	2-2	636336 922883
1	adilakshmi4765@gmai l.com	N.Venkat esh	21KP1 A4468	N.Manikya Rao	N.Sri Lakshmi	CS E	83 .0 0	19	CSE-DS	II-II	602515 258256
2	sravankumar7156@g mail.com	Sravan Kumar	21KP1 A4488	Rama Chandra Rao	Venkatesw aramma	ME CH	7. 00	20	mech	4	930319 053088
3	sandeepyeruva1124@ gmail.com	Yeruva sandeep reddy	21KP1 A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CS E	9. 50	20	CSE	2-3	576154 990146
4	sivajibejjanki@gmail.c om	B.sivaji	22kp5a 4402	B.lakshmaia h	B.veramma	DS	0. 72	23	Comput er science	2-2	895444 662410
5	ramyayalabolu123r@g mail.com	Y.Ramya	21KP1 A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	80 .0 0	19	CSD	2-2	724574 588425
6	charithareddy3914@g mail.com	P.charitha reddy	21KP1 A4475	P.Madhava Reddy	P.Kavitha	DS	70 .0 0	19	CSD	2.2	810177 524502

36

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	A G E	BRA NCH	SEMIST ER	UID AI NO	
7	gayathripolepalli70@g mail.com	POLEPALL LI. GAYATH RI	21KP1 A4481	POLEPALLI. GURUBRAH MA CHARI	POLEPALL I.SRIDEVI	DS	10 .0 0	19	Data Science	2-2	721819 168061
8	syedtasleem07@gmail .com	Syed Tasleem Afroze	21KP1 A44A9	Syed Rahiman	Syed Naseema	ME CH	8. 00	19	DS	2-2	617020 354793
9	sowjanyathota11@gm ail.com	T.SOWJA NYA	21KP1 A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8. 00	19	DATA SCIENC E	2-2	338666 948901
10	tammasahithi1@gmail. com	Tamma Sahithi	21KP1 A44B0	Tamma krishna reddy	Tamma Padmavath i	DS	7. 70	19	CSE (Data science)	2-2	685349 832128
11	podilisarayu6@gmail.c om	PODILI LAKSHMI SARAYU	21KP1 A4480	PODILI RAMESH	PODILI ADILAKSH MI	DS	7. 50	19	DATA SCIENC E	2-2	458689 741091
12	shaikkarishma811@g mail.com	shaik karishma	21KP1 A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9. 00	19	ds	2-2	663048 521599
13	kumarvalaparla890@g mail.com	Venkata Aravind Kumar.V	21KP1 A44C0	Veeraswam y.v	Lakshmi.v	DS	0. 98	20	Data Science	2-2	510305 345824
14	patchachinnu3@gmail. com	Patcha Jaswanth	21KP1 A4477	Patcha apparao	Patcha sukanya	CS E	0. 99	20	Data science	2-2	744020 413963
15	manu952041@gmail.c om	Pachipulu su Manohar	21KP1 A4472	Pachipulusu Prasad	Pachipulus u Bhavani	ME CH	8. 50	19	Data Science	2-2	559366 114423
16	vanukuri.raghava@gm ail.com	Raghava	21KP1 A44C3	Srinivasa reddy	Jyothi	DS	7. 00	19	Data science	2-2	424973 081348
17	shaiksakina05@gmail. com	Shaik sameer	21KP1 A44A3	Shaik Rahim babu	Shaik Raziya	DS	80 .0 0	20	DS	2-2	529261 464345
18	us465249@gmail.com	S sk usman	21KP1 A4492	S sk mastan vali	Mahabobb a	DS	50 .0 0	19	DS	2-2	568753 875709
19	vallu.srinu756939@gm ail.com	Vallu Srinu Siva Subrahma nyam	21KP1 A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73 .0 0	20	Comput er Science Enginee ring& Data Science	4	********* ***
20	undelachandraobulare ddy@gmail.com	Undela Chandra Obula Reddy	21KP1 A44B9	Undela Chinna Obula Reddy	Undela GuruLaksh mi	DS	9. 20	20	Comput er Science	2-2	693621 780842

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UID AI NO	
21	farukh.786syed@gmail.com	SYED.FARUKH	21KP1A44A7	SYED.BAJI	SYED.SARTHAJ BEGUM	DS	0.70	19	DS	2-2	764320 730678
22	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1A44C7	Chinna anjayya	Lakshmi narayanama	DS	75.00	19	CSD	2-2	830785 066037
23	madhulathasure9@gmail.com	SURE. MADHULATHA	21KP1A44A4	SURE.VISWANADHAM	SURE.SAI LAKSHMI	DS	10.00	20	Data science	2-2	776486 062608
24	thammisettysrikanthraj9@gmail.com	T.Srikanth	21KP1A44B5	T.vasu	T.jaya	DS	0.75	19	Data Science	2-2	673112 205183
25	shiakmobin2002@gmail.com	Shaikmobin	21KP1A4497	shaik karimullah	Shaik rihana	DS	8.80	21	Ds	2.2	904355 656468
26	abdulkhadar6842@gmail.com	Shaik.Abdul Khadar	21KP1A4493	Shaik.Kareem	Shaik.Farjana	ECE	8.00	20	Data Science	2-2	334708 289154
27	ravuakshaya@gmail.com	Ravu.akshaya	21KP1A4485	Ravu.srinivasrao	Ravu.aruna kumari	DS	80.00	19	Ds	2.2	544305 783128
28	hemasanjushasanikommu828@gmail.com	hema sanjusha	21KP1A4491	musalareddy	sivaparvathi	CSE	73.00	18h	cse	2-2	422314 863763
29	ynagasasikumar@gmail.com	Y Naga Sasi Kumar	21KP1A44D0	Y Rama mohanarao	Y Lalitha	DS	9.20	20	Data Science	2-2	448172 496292
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtunnisa	21KP1A44A0	Shaik.mahaboobjani	Shaik.munni	DS	8.00	18	Data science	2-2	406976 169351
31	harikabangaram313@gmail.com	Harika	22KP5A4401	A.Subramanyam	A.Dhana Bhagyam	DS	75.00	19	Data science	2-2	574930 568520
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A4476	Appa rao Patcha	Renuka Patcha	DS	0.75	18	Data Science	2-2	573041 880949
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1A4490	Mohan krishna	Usha rani	DS	70.00	19	Ds	2-2	274736 890047
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CSE	70.00	19	Cse-Data Science	2_2	587480 445790
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1A44B2	T sathyanarayana	T rama devi	DS	9.60	19	Data Science	2-2	357228 202835

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	A G E	BRA NCH	SEMIST ER	UID AI NO	
36	nikitharayapati9@gmai l.com	Nikhitha Rayapati	21KP1 A4487	Rayapati hanumathra o	Rayapati malleswari	DS	80 .0 0	19	Ds	2-2	963360 828294
37	indhupotla123@gmail. com	indhu priya	21KP1 A4483	Lakshmanar ayana	Sujatha	CS E	72 .0 0	19	cse	2-2	524345 891620
38	abdulabdul22070@gm ail.com	Syed.Abd ul Rehaman	21KP1 A44A6	Syed.Meera Sharif	Bandi.Krish na veni	DS	90 .0 0	20	DS	2-2	347853 509974
39	jaffershaik718@gmail. com	Jaffer shaik	21KP1 A4495	shaik.LaiLah a	shaik.Ramj an bee	CS E	70 .0 0	19	cse	2nd	912229 276699
40	rabbanishaik7356@g mail.com	SHAIK RABBANI	21KP1 A4499	SHAIK MOHAMMA D HANIF	SHAIK MALIN	DS	9. 50	21	CSD	2-2	205933 956204
41	reshmayalamanchi@g mail.com	Reshma yalamanc hi	21KP1 A44C9	Yalamanchi subba Rao	Yalamanchi sunitha	DS	75 .0 0	19	DS	4	742366 316353
42	thiriveedhinagajyothi@ gmail.com	T. Nagajyoth i	21KP1 A44B7	T. Venkayya	T. Ramanjam ma	DS	75 .0 0	19	DS	4	330477 145525
43	paladugudurga1@gma il.com	P. Durga Sri	21KP1 A4473	P. Amareswara rao	P. Seshu Kumari	DS	80 .0 0	20	CSD(Da ta Science)	2-2	692162 661608
44	saidashaik371@gmail. com	SHAIK SAIDA ANWAR BASHA	21KP1 A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANBI	DS	80 .0 0	20	DATAS CIENCE	2-2	466722 650274
45	mvkbn1312@gmail.co m	R.M.V.K. Brahma Naidu	21KP1 A4489	Yedukondal u	Nirmala	DS	7. 00	20	Data science	2-2	2387 7088 9424
46	nrajasambasivarao@g mail.com	Narra Raja Samba Siva Rao	21KP1 A4471	Narra SrinivasaRa o	Narra Ramadevi	DS	7. 50	19	CSD (Data science)	4	835457 902826
47	saisairam068@gmail.c om	Sairam	21kp1a 44b4	Venkata subbiah	Ravanamm a	CS E	10 .0 0	19	Da	2-2	746109 575146
48	sriharshanallabothu@ gmail.com	Nallaboth u. Sri Harsha	21KP1 A4469	Nallabothu. Anjaneyulu	Nallabothu. Anitha	DS	90 .0 0	21	CSD	2-2	208611 060176
49	bhuvanstarpuli@gmail. com	Puli bhuvanes war	21KP1 A4484	Puli mallikarjuna	Puli ramadevi	DS	8. 30	21	Data science	2.2	950519 207474

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	A G E	BRA NCH	SEMIST ER	UID AI NO
50	arundathi0508@gmail. com	PANDA UMA ARUNDA THI	21KP1 A4474	PANDA NARAYANA RAO	PANDA PRASANN A LAKSHMI	DS	87 .0 0	19	CSD	2-2	652650 486629
51	chinnivignesh144@gm ail.com	chinni vignesh teja yadav	21KP1 A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	80 .0 0	19	Data Science	4th sem ester	639534 870436

```
Data.CGPA=Data.CGPA.astype(float)
print(Data)
```

```
                             Gmail                 STUDENT NAME  \
0        vennachandana1@gmail.com            Venna Chandana
1         adilakshmi4765@gmail.com               N.Venkatesh
2        sravankumar7156@gmail.com             Sravan Kumar
3       sandeepyeruva1124@gmail.com      Yeruva sandeep reddy
4          sivajibejjanki@gmail.com                 B.sivaji
5       ramyayalabolu123r@gmail.com                  Y.Ramya
6       charithareddy3914@gmail.com        P.charitha reddy
7     gayathripolepalli70@gmail.com       POLEPALLI. GAYATHRI
8          syedtasleem07@gmail.com       Syed Tasleem Afroze
9        sowjanyathota11@gmail.com               T.SOWJANYA
10         tammasahithi1@gmail.com            Tamma Sahithi
11         podilisarayu6@gmail.com       PODILI LAKSHMISARAYU
12       shaikkarishma811@gmail.com           shaik karishma
13      kumarvalaparla890@gmail.com   Venkata Aravind Kumar.V
14         patchachinnu3@gmail.com           Patcha Jaswanth
15             manu952041@gmail.com       Pachipulusu Manohar
16      vanukuri.raghava@gmail.com                   Raghava
17         shaiksakina05@gmail.com              Shaik sameer
18             us465249@gmail.com                 S sk usman
19      vallu.srinu756939@gmail.com  Vallu Srinu Siva Subrahmanyam
20  undelachandraobulareddy@gmail.com   Undela Chandra Obula Reddy
21         farukh.786syed@gmail.com               SYED.FARUKH
22       anushayalabolu12@gmail.com          Anusha yalabolu
23       madhulathasure9@gmail.com          SURE. MADHULATHA
24  thammisettysrikanthraj9@gmail.com                T.Srikanth
25        shiakmobin2002@gmail.com               Shaikmobin
26        abdulkhadar6842@gmail.com       Shaik.Abdul Khadar
27           ravuakshaya@gmail.com             Ravu.akshaya
28  hemasanjushasanikommu828@gmail.com            hema sanjusha
29        ynagasasikumar@gmail.com        Y Naga Sasi Kumar
30     rahamtunnisashaik09@gmail.com        Shaik Rahamtunnisa
```

```
31              harikabangaram313@gmail.com                                Harika
32              indupriya72216@gmail.com                        Indu Priya Patcha
33            bhavyasrisajja2003@gmail.com                              Bhavya sri
34            sudhamshavejendla@gmail.com      Vejendla Devi Sri Sudhamsha
35               bhanuthanirru@gmail.com       Thanirru Bhanu venkata prasad
36              nikitharayapati9@gmail.com                     Nikhitha Rayapati
37                indhupotla123@gmail.com                             indhu priya
38              abdulabdul22070@gmail.com             Syed.Abdul Rehaman
39               jaffershaik718@gmail.com                            Jaffer shaik
40              rabbanishaik7356@gmail.com                         SHAIK RABBANI
41            reshmayalamanchi@gmail.com                       Reshma yalamanchi
42      thiriveedhinagajyothi@gmail.com                           T. Nagajyothi
43              paladugudurga1@gmail.com                            P. Durga Sri
44               saidashaik371@gmail.com       SHAIK SAIDA ANWAR BASHA
45                   mvkbn1312@gmail.com             R.M.V.K.Brahma Naidu
46            nrajasambasivarao@gmail.com      Narra Raja Samba Siva Rao
47               saisairam068@gmail.com                                  Sairam
48          sriharshanallabothu@gmail.com       Nallabothu. Sri Harsha
49              bhuvanstarpuli@gmail.com                Puli bhuvaneswar
50              arundathi0508@gmail.com              PANDA UMA ARUNDATHI
51            chinnivignesh144@gmail.com        chinni vignesh teja yadav

      ROLL NUMBER                       FATHER NAMEMOTHER NAME \
0    21KP1A44C5          Venna Ramanareddy          Venna Lakshmidevi
1    21KP1A4468                 N.Manikya Rao               N.Sri Lakshmi
2    21KP1A4488            Rama Chandra Rao          Venkateswaramma
3    21KP1A44D1      Yeruva Ajay Kumar reddy       Yeruva Anjali Devi
4    22kp5a4402                 B.lakshmaiah                  B.veramma
5    21KP1A44C8                    Y.Anjaiah         Y Lakshmi Rajyam
6    21KP1A4475              P.Madhava Reddy               P.Kavitha
7    21KP1A4481    POLEPALLI. GURUBRAHMA CHARI        POLEPALLI.SRIDEVI
8    21KP1A44A9                 Syed Rahiman             Syed Naseema
9    21KP1A44B6            T.SAMBA SIVA RAO         T.ARUNA KUMARI
10   21KP1A44B0          Tamma krishna reddy       Tamma Padmavathi
11   21KP1A4480              PODILI RAMESH         PODILI ADILAKSHMI
12   21KP1A4496                 SHAIK BAJI             SHAIK  KHADRUN
13   21KP1A44C0                 Veeraswamy.v                 Lakshmi.v
14   21KP1A4477               Patcha apparao           Patcha sukanya
15   21KP1A4472           Pachipulusu Prasad     Pachipulusu Bhavani
16   21KP1A44C3             Srinivasa reddy                   Jyothi
17   21KP1A44A3             Shaik Rahim babu            Shaik Raziya
18   21KP1A4492             S sk mastan vali                Mahabobba
19   21KP1A44C1           Vallu Srinivasa Rao      Vallu Surya kumari
20   21KP1A44B9      Undela Chinna Obula Reddy       Undela GuruLakshmi
21   21KP1A44A7                   SYED.BAJI         SYED.SARTHAJ BEGUM
22   21KP1A44C7               Chinna anjayya      Lakshmi narayanama
23   21KP1A44A4             SURE.VISWANADHAM          SURE.SAI LAKSHMI
24   21KP1A44B5                      T.vasu                  T.jaya
25   21KP1A4497             shaik karimullah             Shaik rihana
26   21KP1A4493                Shaik.Kareem             Shaik.Farjana
27   21KP1A4485               Ravu.srinivasrao     Ravu.aruna kumari
28   21KP1A4491                   musalareddy             sivaparvathi
29   21KP1A44D0             Y Rama mohanarao               Y Lalitha
30   21KP1A44A0            Shaik.mahaboobjani             Shaik.munni
31   22KP5A4401                 A.Subramanyam         A.Dhana Bhagyam
32   21KP1A4476               Appa rao Patcha           Renuka Patcha
33   21KP1A4490                Mohan krishna                Usha rani
34   21KP1A44C4      Vejendla Srinivass Rao  Vejendla Laxmi Prasanna
```
41

```
35    21KP1A44B2                T sathyanarayana               T rama devi
36    21KP1A4487             Rayapati hanumathrao        Rayapati malleswari
37    21KP1A4483                 Lakshmanarayana                   Sujatha
38   21KP1A44A6               Syed.Meera Sharif         Bandi.Krishna veni
39    21KP1A4495                  shaik.LaiLaha           shaik.Ramjan bee
40    21KP1A4499            SHAIK MOHAMMAD HANIF               SHAIK MALIN
41    21KP1A44C9            Yalamanchi  subba Rao        Yalamanchi sunitha
42    21KP1A44B7                     T. Venkayya             T. Ramanjamma
43    21KP1A4473               P. Amareswara rao          P. Seshu Kumari
44   21KP1A44A2               SHAIK KUDHAN VALI        SHAIK SAIDA HUSSANBI
45    21KP1A4489                    Yedukondalu                   Nirmala
46    21KP1A4471              Narra SrinivasaRao            Narra Ramadevi
47    21kp1a44b4                Venkata subbiah                 Ravanamma
48    21KP1A4469          Nallabothu. Anjaneyulu        Nallabothu. Anitha
49    21KP1A4484              Puli mallikarjuna             Puli ramadevi
50    21KP1A4474             PANDA NARAYANA RAO      PANDA PRASANNA LAKSHMI
51    21KP1A44C6              Chinni Pratap Kumar           Chinni Bhargavi

     COURSE   CGPA  AGE                                           BRANCH  \
0       DS    8.00   19                               Data science
1      CSE   83.00   19                                      CSE-DS
2     MECH    7.00   20                                        mech
3      CSE    9.50   20                                         CSE
4       DS    0.72   23                            Computer science
5       DS   80.00   19                                         CSD
6       DS   70.00   19                                         CSD
7       DS   10.00   19                                Data Science
8     MECH    8.00   19                                          DS
9       DS    8.00   19                                DATA SCIENCE
10      DS    7.70   19                        CSE (Data science)
11      DS    7.50   19                                DATA SCIENCE
12      DS    9.00   19                                          ds
13      DS    0.98   20                                Data Science
14     CSE    0.99   20                                Data science
15    MECH    8.50   19                                Data Science
16      DS    7.00   19                                Data science
17      DS   80.00   20                                          DS
18      DS   50.00   19                                          DS
19      DS   73.00   20  Computer Science Engineering& Data Science
20      DS    9.20   20                            Computer Science
21      DS    0.70   19                                          DS
22      DS   75.00   19                                         CSD
23      DS   10.00   20                                Data science
24      DS    0.75   19                                Data Science
25      DS    8.80   21                                          Ds
26     ECE    8.00   20                                Data Science
27      DS   80.00   19                                          Ds
28     CSE   73.00  18h                                         cse
29      DS    9.20   20                                Data Science
30      DS    8.00   18                                Data science
31      DS   75.00   19                                Data science
32      DS    0.75   18                                Data Science
33      DS   70.00   19                                          Ds
34     CSE   70.00   19                           Cse- Data Science
35      DS    9.60   19                                Data Science
36      DS   80.00   19                                          Ds
37     CSE   72.00   19                                         cse
38      DS   90.00   20                                          DS
```

```
39     CSE   70.00   19                                              cse
40      DS    9.50   21                                              CSD
41      DS   75.00   19                                               DS
42      DS   75.00   19                                               DS
43      DS   80.00   20                              CSD(Data Science)
44      DS   80.00   20                                    DATASCIENCE
45      DS    7.00   20                                   Data science
46      DS    7.50   19                            CSD (Data science)
47     CSE   10.00   19                                              Da
48      DS   90.00   21                                             CSD
49      DS    8.30   21                                   Data science
50      DS   87.00   19                                             CSD
51      DS   80.00   19                                   Data Science


        SEMISTER         UIDAI NO
0          2-2      636336922883
1        II-II      602515258256
2            4      930319053088
3          2-3      576154990146
4          2-2      895444662410
5          2-2      724574588425
6          2.2      810177524502
7          2-2      721819168061
8          2-2      617020354793
9          2-2      338666948901
10         2-2      685349832128
11         2-2      458689741091
12         2-2      663048521599
13         2-2      510305345824
14         2-2      744020413963
15         2-2      559366114423
16         2-2      424973081348
17         2-2      529261464345
18         2-2      568753875709
19           4      ************
20         2-2      693621780842
21         2-2      764320730678
22         2-2      830785066037
23         2-2      776486062608
24         2-2      673112205183
25         2.2      904355656468
26         2-2      334708289154
27         2.2      544305783128
28         2-2      422314863763
29         2-2      448172496292
30         2-2      406976169351
31         2-2      574930568520
32         2-2      573041880949
33         2-2      274736890047
34         2_2      587480445790
35         2-2      357228202835
36         2-2      963360828294
37         2-2      524345891620
38         2-2      347853509974
39         2nd      912229276699
40         2-2      205933956204
41           4      742366316353
42           4      330477145525
```

```
43          2-2    692162661608
44          2-2    466722650274
45          2-2   2387 7088 9424
46            4    835457902826
47          2-2    746109575146
48          2-2    208611060176
49          2.2    950519207474
50          2-2    652650486629
51   4th semester   639534870436
```

Data[Data['CGPA']>8.0]

G ma il	STUDENT NAME	ROLL NUMBE R	FATHE R NAME	MOTHER NAME	COURSE	CG PA	A G E	BRA NCH	SEMIST ER	UID AI NO	
1	adilakshmi4765@gmail.com	N.Venka tesh	21KP1 A4468	N.Manikya Rao	N.Sri Lakshmi	CS E	83 .0	19	CSE-DS	II-II	602515 258256
3	sandeepyeruva1124@gmail.com	Yeruva sandeep reddy	21KP1 A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CS E	9. 5	20	CSE	2-3	576154 990146
5	ramyayalabolu123r@gmail.com	Y.Ramy a	21KP1 A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	80 .0	19	CSD	2-2	724574 588425
6	charithareddy3914@gmail.com	P.charit ha reddy	21KP1 A4475	P.Madhava Reddy	P.Kavitha	DS	70 .0	19	CSD	2.2	810177 524502
7	gayathripolepalli70@gmail.com	POLEP ALLI. GAYAT HRI	21KP1 A4481	POLEPALLI. GURUBRAH MA CHARI	POLEPALL I.SRIDEVI	DS	10 .0	19	Data Science	2-2	721819 168061
12	shaikkarishma811@gmail.com	shaik karishm a	21KP1 A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9. 0	19	ds	2-2	663048 521599
15	manu952041@gmail.com	Pachipul usu Manoha r	21KP1 A4472	Pachipulusu Prasad	Pachipulus u Bhavani	ME CH	8. 5	19	Data Science	2-2	559366 114423
17	shaiksakina05@gmail.com	Shaik sameer	21KP1 A44A3	Shaik Rahim babu	Shaik Raziya	DS	80 .0	20	DS	2-2	529261 464345
18	us465249@gmail.com	S sk usman	21KP1 A4492	S sk mastan vali	Mahabobba	DS	50 .0	19	DS	2-2	568753 875709
19	vallu.srinu756939@gmail.com	Vallu Srinu Siva Subrah manyam	21KP1 A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73 .0	20	Comput er Science Enginee ring& Data Science	4	********* ***

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO	
20	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy	21KP1A44B9	Undela Chinna Obula Reddy	Undela GuruLakshmi	DS	9.2	20	Computer Science	2-2	693621 780842
22	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1A44C7	Chinna anjayya	Lakshmi narayanama	DS	75.0	19	CSD	2-2	830785 066037
23	madhulathasure9@gmail.com	SURE. MADHU LATHA	21KP1A44A4	SURE.VISW ANADHAM	SURE.SAI LAKSHMI	DS	10.0	20	Data science	2-2	776486 062608
25	shiakmobin2002@gmail.com	Shaikmo bin	21KP1A4497	shaik karimullah	Shaik rihana	DS	8.8	21	Ds	2.2	904355 656468
27	ravuakshaya@gmail.com	Ravu.ak shaya	21KP1A4485	Ravu.sriniva srao	Ravu.aruna kumari	DS	80.0	19	Ds	2.2	544305 783128
28	hemasanjushasanikommu828@gmail.com	hema sanjusha	21KP1A4491	musalareddy	sivaparvathi	CSE	73.0	18h	cse	2-2	422314 863763
29	ynagasasikumar@gmail.com	Y Naga Sasi Kumar	21KP1A44D0	Y Rama mohanarao	Y Lalitha	DS	9.2	20	Data Science	2-2	448172 496292
31	harikabangaram313@gmail.com	Harika	22KP5A4401	A.Subraman yam	A.Dhana Bhagyam	DS	75.0	19	Data science	2-2	574930 568520
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1A4490	Mohan krishna	Usha rani	DS	70.0	19	Ds	2-2	274736 890047
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CSE	70.0	19	Cse-Data Science	2_2	587480 445790
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1A44B2	T sathyanaray ana	T rama devi	DS	9.6	19	Data Science	2-2	357228 202835
36	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1A4487	Rayapati hanumathrao	Rayapati malleswari	DS	80.0	19	Ds	2-2	963360 828294
37	indhupotla123@gmail.com	indhu priya	21KP1A4483	Lakshmanar ayana	Sujatha	CSE	72.0	19	cse	2-2	524345 891620
38	abdulabdul22070@gmail.com	Syed.Abdul Rehaman	21KP1A44A6	Syed.Meera Sharif	Bandi.Krish na veni	DS	90.0	20	DS	2-2	347853 509974
39	jaffershaik718@gmail.com	Jaffer shaik	21KP1A4495	shaik.LaiLah a	shaik.Ramj an bee	CSE	70.0	19	cse	2nd	912229 276699

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO	
40	rabbanishaik7356@gmail.com	SHAIK RABBANI	21KP1A4499	SHAIK MOHAMMAD HANIF	SHAIK MALIN	DS	9.5	21	CSD	2-2	205933 956204
41	reshmayalamanchi@gmail.com	Reshma yalamanchi	21KP1A44C9	Yalamanchi subba Rao	Yalamanchi sunitha	DS	75.0	19	DS	4	742366 316353
42	thiriveedhinagajyothi@gmail.com	T. Nagajyothi	21KP1A44B7	T. Venkayya	T. Ramanjamma	DS	75.0	19	DS	4	330477 145525
43	paladugudurga1@gmail.com	P. Durga Sri	21KP1A4473	P. Amareswara rao	P. Seshu Kumari	DS	80.0	20	CSD(Data Science)	2-2	692162 661608
44	saidashaik371@gmail.com	SHAIK SAIDA ANWAR BASHA	21KP1A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANBI	DS	80.0	20	DATASCIENCE	2-2	466722 650274
47	saisairam068@gmail.com	Sairam	21kp1a44b4	Venkata subbiah	Ravanamma	CSE	10.0	19	Da	2-2	746109 575146
48	sriharshanallabothu@gmail.com	Nallabothu. Sri Harsha	21KP1A4469	Nallabothu. Anjaneyulu	Nallabothu. Anitha	DS	90.0	21	CSD	2-2	208611 060176
49	bhuvanstarpuli@gmail.com	Puli bhuvaneswar	21KP1A4484	Puli mallikarjuna	Puli ramadevi	DS	8.3	21	Data science	2.2	950519 207474
50	arundathi0508@gmail.com	PANDA UMA ARUNDATHI	21KP1A4474	PANDA NARAYANA RAO	PANDA PRASANNA LAKSHMI	DS	87.0	19	CSD	2-2	652650 486629
51	chinnivignesh144@gmail.com	chinni vignesh teja yadav	21KP1A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	80.0	19	Data Science	4th semester	639534 870436

```
smallest=Data.nsmallest(10,"CGPA")

print(smallest)
```

```
                          Gmail          STUDENT NAME  ROLL NUMBER  \
21          farukh.786syed@gmail.com      SYED.FARUKH   21KP1A44A7
4            sivajibejjanki@gmail.com        B.sivaji   22kp5a4402
24   thammisettysrikanthraj9@gmail.com     T.Srikanth   21KP1A44B5
```

	Gmail	STUDENT NAME	ROLL NUMBER
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A4476
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1A44C0
14	patchachinnu3@gmail.com	Patcha Jaswanth	21KP1A4477
2	sravankumar7156@gmail.com	Sravan Kumar	21KP1A4488
16	vanukuri.raghava@gmail.com	Raghava	21KP1A44C3
45	mvkbn1312@gmail.com	R.M.V.K.Brahma Naidu	21KP1A4489
11	podilisarayu6@gmail.com	PODILI LAKSHMISARAYU	21KP1A4480

	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH \
21	SYED.BAJI	SYED.SARTHAJ BEGUM	DS	0.70	19	DS
4	B.lakshmaiah	B.veramma	DS	0.72	23	Computer science
24	T.vasu	T.jaya	DS	0.75	19	Data Science
32	Appa rao Patcha	Renuka Patcha	DS	0.75	18	Data Science
13	Veeraswamy.v	Lakshmi.v	DS	0.98	20	Data Science
14	Patcha apparao	Patcha sukanya	CSE	0.99	20	Data science
2	Rama Chandra Rao	Venkateswaramma	MECH	7.00	20	mech
16	Srinivasa reddy	Jyothi	DS	7.00	19	Data science
45	Yedukondalu	Nirmala	DS	7.00	20	Data science
11	PODILI RAMESH	PODILI ADILAKSHMI	DS	7.50	19	DATA SCIENCE

	SEMISTER	UIDAI NO
21	2-2	764320730678
4	2-2	895444662410
24	2-2	673112205183
32	2-2	573041880949
13	2-2	510305345824
14	2-2	744020413963
2	4	930319053088
16	2-2	424973081348
45	2-2	2387 7088 9424
11	2-2	458689741091

largest=Data.nlargest(10,"CGPA")

print(largest)

	Gmail	STUDENT NAME	ROLL NUMBER \
38	abdulabdul22070@gmail.com	Syed.Abdul Rehaman	21KP1A44A6
48	sriharshanallabothu@gmail.com	Nallabothu. Sri Harsha	21KP1A4469
50	arundathi0508@gmail.com	PANDA UMA ARUNDATHI	21KP1A4474
1	adilakshmi4765@gmail.com	N.Venkatesh	21KP1A4468
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1A44C8
17	shaiksakina05@gmail.com	Shaik sameer	21KP1A44A3
27	ravuakshaya@gmail.com	Ravu.akshaya	21KP1A4485
36	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1A4487
43	paladugudurga1@gmail.com	P. Durga Sri	21KP1A4473
44	saidashaik371@gmail.com	SHAIK SAIDA ANWAR BASHA	21KP1A44A2

	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE \
38	Syed.Meera Sharif	Bandi.Krishna veni	DS	90.0	20
48	Nallabothu. Anjaneyulu	Nallabothu. Anitha	DS	90.0	21
50	PANDA NARAYANA RAO	PANDA PRASANNA LAKSHMI	DS	87.0	19

```
1              N.Manikya Rao          N.Sri Lakshmi    CSE  83.0  19
5                 Y.Anjaiah      Y Lakshmi Rajyam      DS   80.0  19
17           Shaik Rahim babu          Shaik Raziya    DS   80.0  20
27            Ravu.srinivasrao    Ravu.aruna kumari    DS   80.0  19
36         Rayapati hanumathrao  Rayapati malleswari   DS   80.0  19
43            P. Amareswara rao      P. Seshu Kumari   DS   80.0  20
44           SHAIK KUDHAN VALI   SHAIK SAIDA HUSSANBI  DS   80.0  20

                     BRANCH SEMISTER      UIDAI NO
38                       DS      2-2   347853509974
48                      CSD      2-2   208611060176
50                      CSD      2-2   652650486629
1                    CSE-DS    II-II   602515258256
5                       CSD      2-2   724574588425
17                       DS      2-2   529261464345
27                       Ds      2.2   544305783128
36                       Ds      2-2   963360828294
43       CSD(Data Science)      2-2   692162661608
44            DATASCIENCE       2-2   466722650274
```

grouping=Data.groupby(['AGE','BRANCH'])

grouping.first()

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	SEMISTER	UIDAI NO		
AGE	**BRANCH**									
18	**Data Science**	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A 4476	Appa rao Patcha	Renuka Patcha	DS	0.75	2-2	5730418 80949
	Data science	rahamtunnisashaik09@gmail.com	Shaik Rahamtunnisa	21KP1A 44A0	Shaik.mahaboobjani	Shaik.munni	DS	8.00	2-2	4069761 69351
19	**CSD**	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1A 44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	80.00	2-2	7245745 88425
	CSD (Data science)	nrajasambasivarao@gmail.com	Narra Raja Samba Siva Rao	21KP1A 4471	Narra SrinivasaRao	Narra Ramadevi	DS	7.50	4	8354579 02826
	CSE (Data science)	tammasahithi1@gmail.com	Tamma Sahithi	21KP1A 44B0	Tamma krishna reddy	Tamma Padmavathi	DS	7.70	2-2	6853498 32128
	CSE-DS	adilakshmi4765@gmail.com	N.Venkatesh	21KP1A 4468	N.Manikya Rao	N.Sri Lakshmi	CSE	83.00	II-II	6025152 58256

AGE	BRANCH	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	SEMISTER	UIDAI NO
	Cse-Data Science	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CSE	70.00	2-2	5874804 45790
	DATA SCIENCE	sowjanyathota11@gmail.com	T.SOWJANYA	21KP1A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8.00	2-2	3386669 48901
	DS	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1A44A9	Syed Rahiman	Syed Naseema	MECH	8.00	2-2	6170203 54793
	Da	saisairam068@gmail.com	Sairam	21kp1a44b4	Venkata subbiah	Ravanamma	CSE	10.00	2-2	7461095 75146
	Data Science	manu952041@gmail.com	Pachipulusu Manohar	21KP1A4472	Pachipulusu Prasad	Pachipulusu Bhavani	MECH	8.50	2-2	5593661 14423
	Data Science	gayathripolepalli70@gmail.com	POLEPALLI. GAYATHRI	21KP1A4481	POLEPALLI. GURUBRAHMA CHARI	POLEPALLI. SRIDEVI	DS	10.00	2-2	7218191 68061
	Data science	vanukuri.raghava@gmail.com	Raghava	21KP1A44C3	Srinivasa reddy	Jyothi	DS	7.00	2-2	4249730 81348
	Data science	vennachandana1@gmail.com	Venna Chandana	21KP1A44C5	Venna Ramanareddy	Venna Lakshmidevi	DS	8.00	2-2	6363369 22883
	Ds	ravuakshaya@gmail.com	Ravu.akshaya	21KP1A4485	Ravu.srinivasrao	Ravu.aruna kumari	DS	80.00	2.2	5443057 83128
	cse	indhupotla123@gmail.com	indhu priya	21KP1A4483	Lakshmanarayana	Sujatha	CSE	72.00	2-2	5243458 91620
	ds	shaikkarishma811@gmail.com	shaik karishma	21KP1A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9.00	2-2	6630485 21599
	CSD(Data Science)	paladugudurga1@gmail.com	P. Durga Sri	21KP1A4473	P. Amareswara rao	P. Seshu Kumari	DS	80.00	2-2	6921626 61608
20	CSE	sandeepyeruva1124@gmail.com	Yeruva sandeep reddy	21KP1A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CSE	9.50	2-3	5761549 90146
	Computer Science	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy	21KP1A44B9	Undela Chinna Obula Reddy	Undela GuruLakshmi	DS	9.20	2-2	6936217 80842

AGE	STUDENT NAME / BRANCH	Gmail	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	SEMISTER	UIDAI NO	
	Computer Science Engineering& Data Science	vallu.srinu756939@gmail.com	21KP1A44C1	Vallu Srinu Siva Subrahmanyam	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73.00	4	************
	DATASCIENCE	saidashaik371@gmail.com	21KP1A44A2	SHAIK SAIDA ANWAR BASHA	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANBI	DS	80.00	2-2	466722650274
	DS	shaiksakina05@gmail.com	21KP1A44A3	Shaik sameer	Shaik Rahim babu	Shaik Raziya	DS	80.00	2-2	529261464345
	Data Science	abdulkhadar6842@gmail.com	21KP1A4493	Shaik.Abdul Khadar	Shaik.Kareem	Shaik.Farjana	ECE	8.00	2-2	334708289154
	Data Science	kumarvalaparla890@gmail.com	21KP1A44C0	Venkata Aravind Kumar.V	Veeraswamy.v	Lakshmi.v	DS	0.98	2-2	510305345824
	Data science	mvkbn1312@gmail.com	21KP1A4489	R.M.V.K. Brahma Naidu	Yedukondalu	Nirmala	DS	7.00	2-2	238770889424
	Data science	patchachinnu3@gmail.com	21KP1A4477	Patcha Jaswanth	Patcha apparao	Patcha sukanya	CSE	0.99	2-2	744020413963
	mech	sravankumar7156@gmail.com	21KP1A4488	Sravan Kumar	Rama Chandra Rao	Venkateswaramma	MECH	7.00	4	930319053088
	CSD	rabbanishaik7356@gmail.com	21KP1A4499	SHAIK RABBANI	SHAIK MOHAMMAD HANIF	SHAIK MALIN	DS	9.50	2-2	205933956204
21	Data science	bhuvanstarpuli@gmail.com	21KP1A4484	Puli bhuvaneswar	Puli mallikarjuna	Puli ramadevi	DS	8.30	2.2	950519207474
	Ds	shiakmobin2002@gmail.com	21KP1A4497	Shaikmobin	shaik karimullah	Shaik rihana	DS	8.80	2.2	904355656468
23	Computer science	sivajibejjanki@gmail.com	22kp5a4402	B.sivaji	B.lakshmaiah	B.veramma	DS	0.72	2-2	895444662410
18h	cse	hemasanjushasanikommu828@gmail.com	21KP1A4491	hema sanjusha	musalareddy	sivaparvathi	CSE	73.00	2-2	422314863763

Data.describe()

CGPA
count52.000000
mean37.657500
std35.381352
min0.700000
25%8.000000
50%9.800000
75%75.000000
max90.000000

df=Data.groupby('COURSE').get_group('DS')

df

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO	
0	vennachandana1@gmail.com	Venna Chandana	21KP1A44C5	Venna Ramanareddy	Venna Lakshmidevi	DS	8.00	19	Data science	2-2	636336 922883	
4	sivajibejjanki@gmail.com	B.sivaji	22kp5a4402	B.lakshmaiah	B.veramma	DS	0.72	23	Computer science	2-2	895444 662410	
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	80.00	19	CSD	2-2	724574 588425	
6	charithareddy3914@gmail.com	P.charitha reddy	21KP1A4475	P.Madhava Reddy	P.Kavitha	DS	70.00	19	CSD	2.2	810177 524502	
7	gayathripolepalli70@gmail.com	POLEPALLI. GAYATHRI	21KP1A4481	POLEPALLI. GURUBRAHMA CHARI	POLEPALLI.SRIDEVI	DS	10.00	19	Data Science	2-2	721819 168061	
9	sowjanyathota11@gmail.com	T.SOWJANYA	21KP1A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8.00	19	DATA SCIENCE	2-2	338666 948901	
10	tammasahithi1@gmail.com	Tamma Sahithi	21KP1A44B0	Tamma krishna reddy	Tamma Padmavathi	DS	7.70	19	CSE (Data science)	2-2	685349 832128	

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO	
11	podilisarayu6@gmail.com	PODILI LAKSHMI SARAYU	21KP1A4480	PODILI RAMESH	PODILI ADILAKSHMI	DS	7.50	19	DATA SCIENCE	2-2	458689741091
12	shaikkarishma811@gmail.com	shaik karishma	21KP1A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9.00	19	ds	2-2	663048521599
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1A44C0	Veeraswamy.v	Lakshmi.v	DS	0.98	20	Data Science	2-2	510305345824
16	vanukuri.raghava@gmail.com	Raghava	21KP1A44C3	Srinivasa reddy	Jyothi	DS	7.00	19	Data science	2-2	424973081348
17	shaiksakina05@gmail.com	Shaik sameer	21KP1A44A3	Shaik Rahim babu	Shaik Raziya	DS	80.00	20	DS	2-2	529261464345
18	us465249@gmail.com	S sk usman	21KP1A4492	S sk mastan vali	Mahabobba	DS	50.00	19	DS	2-2	568753875709
19	vallu.srinu756939@gmail.com	Vallu Srinu Siva Subrahmanyam	21KP1A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73.00	20	Computer Science Engineering& Data Science	4	************
20	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy	21KP1A44B9	Undela Chinna Obula Reddy	Undela GuruLakshmi	DS	9.20	20	Computer Science	2-2	693621780842
21	farukh.786syed@gmail.com	SYED.FARUKH	21KP1A44A7	SYED.BAJI	SYED.SARTHAJ BEGUM	DS	0.70	19	DS	2-2	764320730678
22	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1A44C7	Chinna anjayya	Lakshmi narayanama	DS	75.00	19	CSD	2-2	830785066037
23	madhulathasure9@gmail.com	SURE.MADHULATHA	21KP1A44A4	SURE.VISWANADHAM	SURE.SAI LAKSHMI	DS	10.00	20	Data science	2-2	776486062608
24	thammisettysrikanthraj9@gmail.com	T.Srikanth	21KP1A44B5	T.vasu	T.jaya	DS	0.75	19	Data Science	2-2	673112205183
25	shiakmobin2002@gmail.com	Shaikmobin	21KP1A4497	shaik karimullah	Shaik rihana	DS	8.80	21	Ds	2.2	904355656468
27	ravuakshaya@gmail.com	Ravu.akshaya	21KP1A4485	Ravu.srinivasrao	Ravu.aruna kumari	DS	80.00	19	Ds	2.2	544305783128
29	ynagasasikumar@gmail.com	Y Naga Sasi Kumar	21KP1A44D0	Y Rama mohanarao	Y Lalitha	DS	9.20	20	Data Science	2-2	448172496292

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO	
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtunnisa	21KP1A44A0	Shaik.mahaboobjani	Shaik.munni	DS	8.00	18	Data science	2-2	406976169351
31	harikabangaram313@gmail.com	Harika	22KP5A4401	A.Subramanyam	A.Dhana Bhagyam	DS	75.00	19	Data science	2-2	574930568520
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A4476	Appa rao Patcha	Renuka Patcha	DS	0.75	18	Data Science	2-2	573041880949
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1A4490	Mohan krishna	Usha rani	DS	70.00	19	Ds	2-2	274736890047
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1A44B2	T sathyanarayana	T rama devi	DS	9.60	19	Data Science	2-2	357228202835
36	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1A4487	Rayapati hanumathrao	Rayapati malleswari	DS	80.00	19	Ds	2-2	963360828294
38	abdulabdul22070@gmail.com	Syed.Abdul Rehaman	21KP1A44A6	Syed.Meera Sharif	Bandi.Krishna veni	DS	90.00	20	DS	2-2	347853509974
40	rabbanishaik7356@gmail.com	SHAIK RABBANI	21KP1A4499	SHAIK MOHAMMAD HANIF	SHAIK MALIN	DS	9.50	21	CSD	2-2	205933956204
41	reshmayalamanchi@gmail.com	Reshma yalamanchi	21KP1A44C9	Yalamanchi subba Rao	Yalamanchi sunitha	DS	75.00	19	DS	4	742366316353
42	thiriveedhinagajyothi@gmail.com	T. Nagajyothi	21KP1A44B7	T. Venkayya	T. Ramanjamma	DS	75.00	19	DS	4	330477145525
43	paladugudurga1@gmail.com	P. Durga Sri	21KP1A4473	P. Amareswararao	P. Seshu Kumari	DS	80.00	20	CSD(Data Science)	2-2	692162661608
44	saidashaik371@gmail.com	SHAIK SAIDA ANWAR BASHA	21KP1A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANBI	DS	80.00	20	DATASCIENCE	2-2	466722650274
45	mvkbn1312@gmail.com	R.M.V.K.Brahma Naidu	21KP1A4489	Yedukondalu	Nirmala	DS	7.00	20	Data science	2-2	238770889424
46	nrajasambasivarao@gmail.com	Narra Raja Samba Siva Rao	21KP1A4471	Narra SrinivasaRao	Narra Ramadevi	DS	7.50	19	CSD (Data science)	4	835457902826
48	sriharshanallabothu@gmail.com	Nallabothu. Sri Harsha	21KP1A4469	Nallabothu. Anjaneyulu	Nallabothu. Anitha	DS	90.00	21	CSD	2-2	208611060176

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO	
49	bhuvanstarpuli@gmail.com	Puli bhuvaneswar	21KP1A4484	Puli mallikarjuna	Puli ramadevi	DS	8.30	21	Data science	2.2	950519 207474
50	arundathi0508@gmail.com	PANDA UMA ARUNDATHI	21KP1A4474	PANDA NARAYANA RAO	PANDA PRASANNA LAKSHMI	DS	87.00	19	CSD	2-2	652650 486629
51	chinnivignesh144@gmail.com	chinni vignesh teja yadav	21KP1A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	80.00	19	Data Science	2-2	639534 870436

df1=Data.groupby('COURSE').get_group('CSE')

df1

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO	
1	adilakshmi4765@gmail.com	N.Venkatesh	21KP1A4468	N.Manikya Rao	N.Sri Lakshmi	CSE	83.00	19	CSE-DS	II-II	6025152 58256
3	sandeepyeruva1124@gmail.com	Yeruva sandeep reddy	21KP1A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CSE	9.50	20	CSE	2-3	5761549 90146
14	patchachinnu3@gmail.com	Patcha Jaswanth	21KP1A4477	Patcha apparao	Patcha sukanya	CSE	0.99	20	Data science	2-2	7440204 13963
28	hemasanjushasanikommu828@gmail.com	hema sanjusha	21KP1A4491	musalareddy	sivaparvathi	CSE	73.00	18h	cse	2-2	4223148 63763
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CSE	70.00	19	Cse-Data Science	2_2	5874804 45790
37	indhupotla123@gmail.com	indhu priya	21KP1A4483	Lakshmana rayana	Sujatha	CSE	72.00	19	cse	2-2	5243458 91620
39	jaffershaik718@gmail.com	Jaffer shaik	21KP1A4495	shaik.LaiLaha	shaik.Ramjanbee	CSE	70.00	19	cse	2nd	9122292 76699

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UID AI NO	
47	saisairam068@gmail.com	Sairam	21kp1a4 4b4	Venkata subbiah	Ravana mma	CSE	10.00	19	Da	2-2	7461095 75146

df2=Data.groupby('COURSE').get_group('MECH')

df2

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UID AI NO	
2	sravankumar7156@gmail.com	Sravan Kumar	21KP1A4 488	Rama Chandra Rao	Venkateswara mma	MECH	7.0	20	mech	4	93031905 3088
8	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1A4 4A9	Syed Rahiman	Syed Naseema	MECH	8.0	19	DS	2-2	61702035 4793
15	manu952041@gmail.com	Pachipul usu Manohar	21KP1A4 472	Pachipul usu Prasad	Pachipulusu Bhavani	MECH	8.5	19	Data Science	2-2	55936611 4423

df3=Data.groupby('COURSE').get_group('ECE')

df3

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UID AI NO	
26	abdulkhadar6842@gmail.com	Shaik.Ab dul Khadar	21KP1A4 493	Shaik.Kar eem	Shaik.Farj ana	ECE	8.0	20	Data Science	2-2	334708289 154

df4=Data.groupby('AGE').get_group(18)
df4

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtunnisa	21KP1A44A0	Shaik.mahaboobjani	Shaik.munni	DS	8.00	18	Data science	2-2	406976169351
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A4476	Appa rao Patcha	Renuka Patcha	DS	0.75	18	Data Science	2-2	573041880949

df5=Data.groupby('AGE').get_group(19)
df5

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
0	vennachandana1@gmail.com	Venna Chandana	21KP1A44C5	Venna Ramanareddy	Venna Lakshmidevi	DS	8.00	19	Data science	2-2	636336922883
1	adilakshmi4765@gmail.com	N.Venkatesh	21KP1A4468	N.Manikya Rao	N.Sri Lakshmi	CSE	83.00	19	CSE-DS	II-II	602515258256
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	80.00	19	CSD	2-2	724574588425
6	charithareddy3914@gmail.com	P.charitha reddy	21KP1A4475	P.Madhava Reddy	P.Kavitha	DS	70.00	19	CSD	2.2	810177524502
7	gayathripolepalli70@gmail.com	POLEPALLI. GAYATHRI	21KP1A4481	POLEPALLI. GURUBRAHMA CHARI	POLEPALLI. SRIDEVI	DS	10.00	19	Data Science	2-2	721819168061
8	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1A44A9	Syed Rahiman	Syed Naseema	MECH	8.00	19	DS	2-2	617020354793
9	sowjanyathota11@gmail.com	T.SOWJANYA	21KP1A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8.00	19	DATA SCIENCE	2-2	338666948901
10	tammasahithi1@gmail.com	Tamma Sahithi	21KP1A44B0	Tamma krishna reddy	Tamma Padmavathi	DS	7.70	19	CSE (Data science)	2-2	685349832128
11	podilisarayu6@gmail.com	PODILI LAKSHMISARAYU	21KP1A4480	PODILI RAMESH	PODILI ADILAKSHMI	DS	7.50	19	DATA SCIENCE	2-2	458689741091

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
12	shaikkarishma811@gmail.com	shaik karishma	21KP1A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9.00	19	ds	2-2	6630485 21599
15	manu952041@gmail.com	Pachipulusu Manohar	21KP1A4472	Pachipulusu Prasad	Pachipulusu Bhavani	MECH	8.50	19	Data Science	2-2	5593661 14423
16	vanukuri.raghava@gmail.com	Raghava	21KP1A44C3	Srinivasa reddy	Jyothi	DS	7.00	19	Data science	2-2	4249730 81348
18	us465249@gmail.com	S sk usman	21KP1A4492	S sk mastan vali	Mahabobba	DS	50.00	19	DS	2-2	5687538 75709
21	farukh.786syed@gmail.com	SYED.FARUKH	21KP1A44A7	SYED.BAJI	SYED.SARTHAJ BEGUM	DS	0.70	19	DS	2-2	7643207 30678
22	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1A44C7	Chinna anjayya	Lakshmi narayanama	DS	75.00	19	CSD	2-2	8307850 66037
24	thammisettysrikanthraj9@gmail.com	T.Srikanth	21KP1A44B5	T.vasu	T.jaya	DS	0.75	19	Data Science	2-2	6731122 05183
27	ravuakshaya@gmail.com	Ravu.akshaya	21KP1A4485	Ravu.srinivasrao	Ravu.aruna kumari	DS	80.00	19	Ds	2.2	5443057 83128
31	harikabangaram313@gmail.com	Harika	22KP5A4401	A.Subramanyam	A.Dhana Bhagyam	DS	75.00	19	Data science	2-2	5749305 68520
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1A4490	Mohan krishna	Usha rani	DS	70.00	19	Ds	2-2	2747368 90047
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CSE	70.00	19	Cse-Data Science	2_2	5874804 45790
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1A44B2	T sathyanarayana	T rama devi	DS	9.60	19	Data Science	2-2	3572282 02835
36	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1A4487	Rayapati hanumathrao	Rayapati malleswari	DS	80.00	19	Ds	2-2	9633608 28294
37	indhupotla123@gmail.com	indhu priya	21KP1A4483	Lakshmana rayana	Sujatha	CSE	72.00	19	cse	2-2	5243458 91620
39	jaffershaik718@gmail.com	Jaffer shaik	21KP1A4495	shaik.LaiLaha	shaik.Ramjan bee	CSE	70.00	19	cse	2nd	9122292 76699
41	reshmayalamanchi@gmail.com	Reshma yalamanchi	21KP1A44C9	Yalamanchi subba Rao	Yalamanchi sunitha	DS	75.00	19	DS	4	7423663 16353

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
42	thiriveedhinagajyothi@gmail.com	T. Nagajyothi	21KP1A44B7	T. Venkayya	T. Ramanjamma	DS	75.00	19	DS	4	3304771 45525
46	nrajasambasivarao@gmail.com	Narra Raja Samba Siva Rao	21KP1A4471	Narra SrinivasaRao	Narra Ramadevi	DS	7.50	19	CSD (Data science)	4	8354579 02826
47	saisairam068@gmail.com	Sairam	21kp1a44b4	Venkata subbiah	Ravanamma	CSE	10.00	19	Da	2-2	7461095 75146
50	arundathi0508@gmail.com	PANDA UMA ARUNDATHI	21KP1A4474	PANDA NARAYANA RAO	PANDA PRASANNA LAKSHMI	DS	87.00	19	CSD	2-2	6526504 86629
51	chinnivignesh144@gmail.com	chinni vignesh teja yadav	21KP1A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	80.00	19	Data Science	4th semester	6395348 70436

df6=Data.groupby('AGE').get_group(20)

df6

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
2	sravankumar7156@gmail.com	Sravan Kumar	21KP1A4488	Rama Chandra Rao	Venkateswaramma	MECH	7.00	20	mech	4	9303190 53088
3	sandeepyeruva1124@gmail.com	Yeruva sandeep reddy	21KP1A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CSE	9.50	20	CSE	2-3	5761549 90146
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1A44C0	Veeraswamy.v	Lakshmi.v	DS	0.98	20	Data Science	2-2	5103053 45824
14	patchachinnu3@gmail.com	Patcha Jaswanth	21KP1A4477	Patcha apparao	Patcha sukanya	CSE	0.99	20	Data science	2-2	7440204 13963
17	shaiksakina05@gmail.com	Shaik sameer	21KP1A44A3	Shaik Rahim babu	Shaik Raziya	DS	80.00	20	DS	2-2	5292614 64345
19	vallu.srinu756939@gmail.com	Vallu Srinu Siva Subrahmanyam	21KP1A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73.00	20	Computer Science Engineering& Data Science	4	************

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
20	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy	21KP1A44B9	Undela Chinna Obula Reddy	Undela GuruLakshmi	DS	9.20	20	Computer Science	2-2	693621780842
23	madhulathasure9@gmail.com	SURE.MADHULATHA	21KP1A44A4	SURE.VISWANADHAM	SURE.SAI LAKSHMI	DS	10.00	20	Data science	2-2	776486062608
26	abdulkhadar6842@gmail.com	Shaik.Abdul Khadar	21KP1A4493	Shaik.Kareem	Shaik.Farjana	ECE	8.00	20	Data Science	2-2	334708289154
29	ynagasasikumar@gmail.com	Y Naga Sasi Kumar	21KP1A44D0	Y Rama mohanarao	Y Lalitha	DS	9.20	20	Data Science	2-2	448172496292
38	abdulabdul22070@gmail.com	Syed.Abdul Rehaman	21KP1A44A6	Syed.Meera Sharif	Bandi.Krishna veni	DS	90.00	20	DS	2-2	347853509974
43	paladugudurga1@gmail.com	P. Durga Sri	21KP1A4473	P. Amareswara rao	P. Seshu Kumari	DS	80.00	20	CSD(Data Science)	2-2	692162661608
44	saidashaik371@gmail.com	SHAIK SAIDA ANWAR BASHA	21KP1A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANBI	DS	80.00	20	DATASCIENCE	2-2	466722650274
45	mvkbn1312@gmail.com	R.M.V.K. Brahma Naidu	21KP1A4489	Yedukondalu	Nirmala	DS	7.00	20	Data science	2-2	238770889424

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df7=Data.groupby('AGE').get_group(21)
df7
```

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
25	shiakmobin2002@gmail.com	Shaikmobin	21KP1A4497	shaik karimullah	Shaik rihana	DS	8.8	21	Ds	2.2	904355656468
40	rabbanishaik7356@gmail.com	SHAIK RABBANI	21KP1A4499	SHAIK MOHAMMAD HANIF	SHAIK MALIN	DS	9.5	21	CSD	2-2	205933956204
48	sriharshanallabothu@gmail.com	Nallabothu. Sri Harsha	21KP1A4469	Nallabothu. Anjaneyulu	Nallabothu. Anitha	DS	90.0	21	CSD	2-2	208611060176

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
49	bhuvanstarpuli@gmail.com	Puli bhuvaneswar	21KP1A4484	Puli mallikarjuna	Puli ramadevi	DS	8.3	21	Data science	2.2	950519207474

Data.replace({'18h':18},inplace=True)
Data

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
0	vennachandana1@gmail.com	Venna Chandana	21KP1A44C5	Venna Ramanareddy	Venna Lakshmidevi	DS	8.00	19	Data science	2-2	636336922883
1	adilakshmi4765@gmail.com	N.Venkatesh	21KP1A4468	N.Manikya Rao	N.Sri Lakshmi	CSE	83.00	19	CSE-DS	II-II	602515258256
2	sravankumar7156@gmail.com	Sravan Kumar	21KP1A4488	Rama Chandra Rao	Venkateswaramma	MECH	7.00	20	mech	4	930319053088
3	sandeepyeruva1124@gmail.com	Yeruva sandeep reddy	21KP1A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CSE	9.50	20	CSE	2-3	576154990146
4	sivajibejjanki@gmail.com	B.sivaji	22kp5a4402	B.lakshmaiah	B.veramma	DS	0.72	23	Computer science	2-2	895444662410
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	80.00	19	CSD	2-2	724574588425
6	charithareddy3914@gmail.com	P.charitha reddy	21KP1A4475	P.Madhava Reddy	P.Kavitha	DS	70.00	19	CSD	2.2	810177524502
7	gayathripolepalli70@gmail.com	POLEPALLI. GAYATHRI	21KP1A4481	POLEPALLI. GURUBRAHMA CHARI	POLEPALLI .SRIDEVI	DS	10.00	19	Data Science	2-2	721819168061
8	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1A44A9	Syed Rahiman	Syed Naseema	MECH	8.00	19	DS	2-2	617020354793
9	sowjanyathota11@gmail.com	T.SOWJANYA	21KP1A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8.00	19	DATA SCIENCE	2-2	338666948901
10	tammasahithi1@gmail.com	Tamma Sahithi	21KP1A44B0	Tamma krishna reddy	Tamma Padmavathi	DS	7.70	19	CSE (Data science)	2-2	685349832128
11	podilisarayu6@gmail.com	PODILI LAKSHMI SARAYU	21KP1A4480	PODILI RAMESH	PODILI ADILAKSHMI	DS	7.50	19	DATA SCIENCE	2-2	458689741091

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
1 2	shaikkarishma811@gmail.com	shaik karishma	21KP1A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9.00	19	ds	2-2	663048 521599
1 3	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1A44C0	Veeraswamy.v	Lakshmi.v	DS	0.98	20	Data Science	2-2	510305 345824
1 4	patchachinnu3@gmail.com	Patcha Jaswanth	21KP1A4477	Patcha apparao	Patcha sukanya	CSE	0.99	20	Data science	2-2	744020 413963
1 5	manu952041@gmail.com	Pachipulusu Manohar	21KP1A4472	Pachipulusu Prasad	Pachipulusu Bhavani	MECH	8.50	19	Data Science	2-2	559366 114423
1 6	vanukuri.raghava@gmail.com	Raghava	21KP1A44C3	Srinivasa reddy	Jyothi	DS	7.00	19	Data science	2-2	424973 081348
1 7	shaiksakina05@gmail.com	Shaik sameer	21KP1A44A3	Shaik Rahim babu	Shaik Raziya	DS	80.00	20	DS	2-2	529261 464345
1 8	us465249@gmail.com	S sk usman	21KP1A4492	S sk mastan vali	Mahabobba	DS	50.00	19	DS	2-2	568753 875709
1 9	vallu.srinu756939@gmail.com	Vallu Srinu Siva Subrahmanyam	21KP1A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73.00	20	Computer Science Engineering& Data Science	4	************
2 0	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy	21KP1A44B9	Undela Chinna Obula Reddy	Undela GuruLakshmi	DS	9.20	20	Computer Science	2-2	693621 780842
2 1	farukh.786syed@gmail.com	SYED.FARUKH	21KP1A44A7	SYED.BAJI	SYED.SARTHAJ BEGUM	DS	0.70	19	DS	2-2	764320 730678
2 2	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1A44C7	Chinna anjayya	Lakshmi narayanama	DS	75.00	19	CSD	2-2	830785 066037
2 3	madhulathasure9@gmail.com	SURE. MADHULATHA	21KP1A44A4	SURE.VISWANADHAM	SURE.SAI LAKSHMI	DS	10.00	20	Data science	2-2	776486 062608
2 4	thammisettysrikanthraj9@gmail.com	T.Srikanth	21KP1A44B5	T.vasu	T.jaya	DS	0.75	19	Data Science	2-2	673112 205183
2 5	shiakmobin2002@gmail.com	Shaikmobin	21KP1A4497	shaik karimullah	Shaik rihana	DS	8.80	21	Ds	2.2	904355 656468
2 6	abdulkhadar6842@gmail.com	Shaik.Abdul Khadar	21KP1A4493	Shaik.Kareem	Shaik.Farjana	ECE	8.00	20	Data Science	2-2	334708 289154
2 7	ravuakshaya@gmail.com	Ravu.akshaya	21KP1A4485	Ravu.srinivasrao	Ravu.aruna kumari	DS	80.00	19	Ds	2.2	544305 783128

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
28	hemasanjushasanikommu828@gmail.com	hema sanjusha	21KP1A4491	musalareddy	sivaparvathi	CSE	73.00	18	cse	2-2	422314863763
29	ynagasasikumar@gmail.com	Y Naga Sasi Kumar	21KP1A44D0	Y Rama mohanarao	Y Lalitha	DS	9.20	20	Data Science	2-2	448172496292
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtunnisa	21KP1A44A0	Shaik.mahabo objani	Shaik.munni	DS	8.00	18	Data science	2-2	406976169351
31	harikabangaram313@gmail.com	Harika	22KP5A4401	A.Subramanyam	A.Dhana Bhagyam	DS	75.00	19	Data science	2-2	574930568520
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A4476	Appa rao Patcha	Renuka Patcha	DS	0.75	18	Data Science	2-2	573041880949
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1A4490	Mohan krishna	Usha rani	DS	70.00	19	Ds	2-2	274736890047
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CSE	70.00	19	Cse- Data Science	2_2	587480445790
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1A44B2	T sathyanarayana	T rama devi	DS	9.60	19	Data Science	2-2	357228202835
36	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1A4487	Rayapati hanumathrao	Rayapati malleswari	DS	80.00	19	Ds	2-2	963360828294
37	indhupotla123@gmail.com	indhu priya	21KP1A4483	Lakshmanarayana	Sujatha	CSE	72.00	19	cse	2-2	524345891620
38	abdulabdul22070@gmail.com	Syed.Abdul Rehaman	21KP1A44A6	Syed.Meera Sharif	Bandi.Krishna veni	DS	90.00	20	DS	2-2	347853509974
39	jaffershaik718@gmail.com	Jaffer shaik	21KP1A4495	shaik.LaiLaha	shaik.Ramjan bee	CSE	70.00	19	cse	2nd	912229276699
40	rabbanishaik7356@gmail.com	SHAIK RABBANI	21KP1A4499	SHAIK MOHAMMAD HANIF	SHAIK MALIN	DS	9.50	21	CSD	2-2	205933956204
41	reshmayalamanchi@gmail.com	Reshma yalamanchi	21KP1A44C9	Yalamanchi subba Rao	Yalamanchi sunitha	DS	75.00	19	DS	4	742366316353
42	thiriveedhinagajyothi@gmail.com	T. Nagajyothi	21KP1A44B7	T. Venkayya	T. Ramanjamma	DS	75.00	19	DS	4	330477145525
43	paladugudurga1@gmail.com	P. Durga Sri	21KP1A4473	P. Amareswara rao	P. Seshu Kumari	DS	80.00	20	CSD(Data Science)	2-2	692162661608

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
4 4	saidashaik371@gmail.com	SHAIK SAIDA ANWAR BASHA	21KP1 A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANBI	DS	80.00	20	DATASCIENCE	2-2	466722 650274
4 5	mvkbn1312@gmail.com	R.M.V.K.Brahma Naidu	21KP1 A4489	Yedukondalu	Nirmala	DS	7.00	20	Data science	2-2	2387 7088 9424
4 6	nrajasambasivarao@gmail.com	Narra Raja Samba Siva Rao	21KP1 A4471	Narra SrinivasaRao	Narra Ramadevi	DS	7.50	19	CSD (Data science)	4	835457 902826
4 7	saisairam068@gmail.com	Sairam	21kp1a 44b4	Venkata subbiah	Ravanamma	CSE	10.00	19	Da	2-2	746109 575146
4 8	sriharshanallabothu@gmail.com	Nallabothu. Sri Harsha	21KP1 A4469	Nallabothu. Anjaneyulu	Nallabothu. Anitha	DS	90.00	21	CSD	2-2	208611 060176
4 9	bhuvanstarpuli@gmail.com	Puli bhuvaneswar	21KP1 A4484	Puli mallikarjuna	Puli ramadevi	DS	8.30	21	Data science	2.2	950519 207474
5 0	arundathi0508@gmail.com	PANDA UMA ARUNDATHI	21KP1 A4474	PANDA NARAYANA RAO	PANDA PRASANNA LAKSHMI	DS	87.00	19	CSD	2-2	652650 486629
5 1	chinnivignesh144@gmail.com	chinni vignesh teja yadav	21KP1 A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	80.00	19	Data Science	4th semester	639534 870436

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Data

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
0	vennachandana1@gmail.com	Venna Chandana	21KP1 A44C5	Venna Ramanareddy	Venna Lakshmidevi	DS	8.00	19	Data science	2-2	636336 922883
1	adilakshmi4765@gmail.com	N.Venkatesh	21KP1 A4468	N.Manikya Rao	N.Sri Lakshmi	CSE	83.00	19	CSE-DS	II-II	602515 258256
2	sravankumar7156@gmail.com	Sravan Kumar	21KP1 A4488	Rama Chandra Rao	Venkateswaramma	MECH	7.00	20	mech	4	930319 053088

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
3	sandeepyeruva1124@gmail.com	Yeruva sandeep reddy	21KP1A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CSE	9.50	20	CSE	2-3	576154 990146
4	sivajibejjanki@gmail.com	B.sivaji	22kp5a4402	B.lakshmaiah	B.veramma	DS	0.72	23	Computer science	2-2	895444 662410
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	80.00	19	CSD	2-2	724574 588425
6	charithareddy3914@gmail.com	P.charitha reddy	21KP1A4475	P.Madhava Reddy	P.Kavitha	DS	70.00	19	CSD	2.2	810177 524502
7	gayathripolepalli70@gmail.com	POLEPALLI. GAYATHRI	21KP1A4481	POLEPALLI. GURUBRAHMA CHARI	POLEPALLI .SRIDEVI	DS	10.00	19	Data Science	2-2	721819 168061
8	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1A44A9	Syed Rahiman	Syed Naseema	MECH	8.00	19	DS	2-2	617020 354793
9	sowjanyathota11@gmail.com	T.SOWJANYA	21KP1A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8.00	19	DATA SCIENCE	2-2	338666 948901
10	tammasahithi1@gmail.com	Tamma Sahithi	21KP1A44B0	Tamma krishna reddy	Tamma Padmavathi	DS	7.70	19	CSE (Data science)	2-2	685349 832128
11	podilisarayu6@gmail.com	PODILI LAKSHMI SARAYU	21KP1A4480	PODILI RAMESH	PODILI ADILAKSHMI	DS	7.50	19	DATA SCIENCE	2-2	458689 741091
12	shaikkarishma811@gmail.com	shaik karishma	21KP1A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9.00	19	ds	2-2	663048 521599
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1A44C0	Veeraswamy.v	Lakshmi.v	DS	0.98	20	Data Science	2-2	510305 345824
14	patchachinnu3@gmail.com	Patcha Jaswanth	21KP1A4477	Patcha apparao	Patcha sukanya	CSE	0.99	20	Data science	2-2	744020 413963
15	manu952041@gmail.com	Pachipulusu Manohar	21KP1A4472	Pachipulusu Prasad	Pachipulusu Bhavani	MECH	8.50	19	Data Science	2-2	559366 114423
16	vanukuri.raghava@gmail.com	Raghava	21KP1A44C3	Srinivasa reddy	Jyothi	DS	7.00	19	Data science	2-2	424973 081348
17	shaiksakina05@gmail.com	Shaik sameer	21KP1A44A3	Shaik Rahim babu	Shaik Raziya	DS	80.00	20	DS	2-2	529261 464345
18	us465249@gmail.com	S sk usman	21KP1A4492	S sk mastan vali	Mahabobba	DS	50.00	19	DS	2-2	568753 875709
19	vallu.srinu756939@gmail.com	Vallu Srinu Siva	21KP1A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73.00	20	Computer Science Engineeri	4	************

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
		Subrahmanyam							ng& Data Science		
20	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy	21KP1A44B9	Undela Chinna Obula Reddy	Undela GuruLakshmi	DS	9.20	20	Computer Science	2-2	693621 780842
21	farukh.786syed@gmail.com	SYED.FARUKH	21KP1A44A7	SYED.BAJI	SYED.SARTHAJ BEGUM	DS	0.70	19	DS	2-2	764320 730678
22	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1A44C7	Chinna anjayya	Lakshmi narayanama	DS	75.00	19	CSD	2-2	830785 066037
23	madhulathasure9@gmail.com	SURE. MADHULATHA	21KP1A44A4	SURE.VISWANADHAM	SURE.SAI LAKSHMI	DS	10.00	20	Data science	2-2	776486 062608
24	thammisettysrikanthraj9@gmail.com	T.Srikanth	21KP1A44B5	T.vasu	T.jaya	DS	0.75	19	Data Science	2-2	673112 205183
25	shiakmobin2002@gmail.com	Shaikmobin	21KP1A4497	shaik karimullah	Shaik rihana	DS	8.80	21	Ds	2.2	904355 656468
26	abdulkhadar6842@gmail.com	Shaik.Abdul Khadar	21KP1A4493	Shaik.Kareem	Shaik.Farjana	ECE	8.00	20	Data Science	2-2	334708 289154
27	ravuakshaya@gmail.com	Ravu.akshaya	21KP1A4485	Ravu.srinivasrao	Ravu.aruna kumari	DS	80.00	19	Ds	2.2	544305 783128
28	hemasanjushasanikommu828@gmail.com	hema sanjusha	21KP1A4491	musalareddy	sivaparvathi	CSE	73.00	18	cse	2-2	422314 863763
29	ynagasasikumar@gmail.com	Y Naga Sasi Kumar	21KP1A44D0	Y Rama mohanarao	Y Lalitha	DS	9.20	20	Data Science	2-2	448172 496292
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtunnisa	21KP1A44A0	Shaik.mahabo objani	Shaik.munni	DS	8.00	18	Data science	2-2	406976 169351
31	harikabangaram313@gmail.com	Harika	22KP5A4401	A.Subramanyam	A.Dhana Bhagyam	DS	75.00	19	Data science	2-2	574930 568520
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A4476	Appa rao Patcha	Renuka Patcha	DS	0.75	18	Data Science	2-2	573041 880949
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1A4490	Mohan krishna	Usha rani	DS	70.00	19	Ds	2-2	274736 890047
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CSE	70.00	19	Cse- Data Science	2_2	587480 445790
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1A44B2	T sathyanarayana	T rama devi	DS	9.60	19	Data Science	2-2	357228 202835

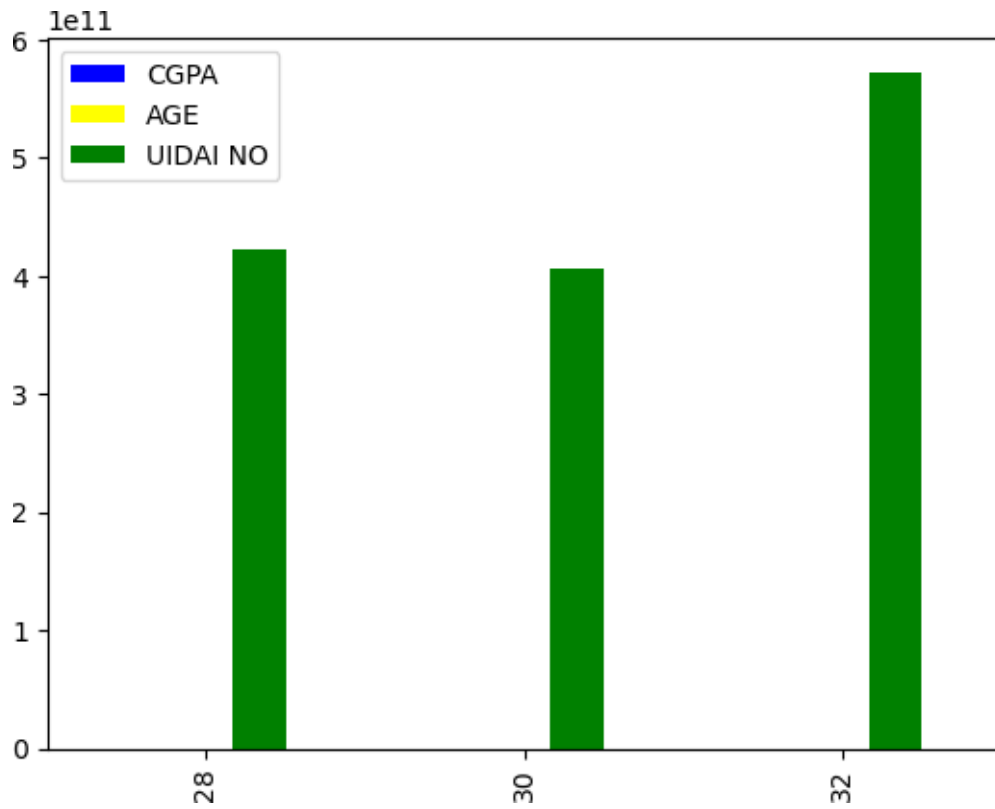|	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
36	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1A4487	Rayapati hanumathrao	Rayapati malleswari	DS	80.00	19	Ds	2-2	963360 828294
37	indhupotla123@gmail.com	indhu priya	21KP1A4483	Lakshmanarayana	Sujatha	CSE	72.00	19	cse	2-2	524345 891620
38	abdulabdul22070@gmail.com	Syed.Abdul Rehaman	21KP1A44A6	Syed.Meera Sharif	Bandi.Krishna veni	DS	90.00	20	DS	2-2	347853 509974
39	jaffershaik718@gmail.com	Jaffer shaik	21KP1A4495	shaik.LaiLaha	shaik.Ramjan bee	CSE	70.00	19	cse	2nd	912229 276699
40	rabbanishaik7356@gmail.com	SHAIK RABBANI	21KP1A4499	SHAIK MOHAMMAD HANIF	SHAIK MALIN	DS	9.50	21	CSD	2-2	205933 956204
41	reshmayalamanchi@gmail.com	Reshma yalamanchi	21KP1A44C9	Yalamanchi subba Rao	Yalamanchi sunitha	DS	75.00	19	DS	4	742366 316353
42	thiriveedhinagajyothi@gmail.com	T. Nagajyothi	21KP1A44B7	T. Venkayya	T. Ramanjamma	DS	75.00	19	DS	4	330477 145525
43	paladugudurga1@gmail.com	P. Durga Sri	21KP1A4473	P. Amareswara rao	P. Seshu Kumari	DS	80.00	20	CSD(Data Science)	2-2	692162 661608
44	saidashaik371@gmail.com	SHAIK SAIDA ANWAR BASHA	21KP1A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANBI	DS	80.00	20	DATASCIENCE	2-2	466722 650274
45	mvkbn1312@gmail.com	R.M.V.K.Brahma Naidu	21KP1A4489	Yedukondalu	Nirmala	DS	7.00	20	Data science	2-2	2387 7088 9424
46	nrajasambasivarao@gmail.com	Narra Raja Samba Siva Rao	21KP1A4471	Narra SrinivasaRao	Narra Ramadevi	DS	7.50	19	CSD (Data science)	4	835457 902826
47	saisairam068@gmail.com	Sairam	21kp1a44b4	Venkata subbiah	Ravanamma	CSE	10.00	19	Da	2-2	746109 575146
48	sriharshanallabothu@gmail.com	Nallabothu. Sri Harsha	21KP1A4469	Nallabothu. Anjaneyulu	Nallabothu. Anitha	DS	90.00	21	CSD	2-2	208611 060176
49	bhuvanstarpuli@gmail.com	Puli bhuvaneswar	21KP1A4484	Puli mallikarjuna	Puli ramadevi	DS	8.30	21	Data science	2.2	950519 207474
50	arundathi0508@gmail.com	PANDA UMA ARUNDATHI	21KP1A4474	PANDA NARAYANA RAO	PANDA PRASANNA LAKSHMI	DS	87.00	19	CSD	2-2	652650 486629
51	chinnivignesh144@gmail.com	chinni vignesh teja yadav	21KP1A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	80.00	19	Data Science	4th semester	639534 870436

df4=Data.groupby('AGE').get_group(18)
df4

	Gmail	STUDE NT NAME	ROLL NUMBE R	FATHER NAME	MOTH ER NAME	COU RSE	CG PA	A GE	BRAN CH	SEMIS TER	UIDAI NO
2 8	hemasanjushasanikommu82 8@gmail.com	hema sanjusha	21KP1A 4491	musalareddy	sivaparv athi	CSE	73.0 0	18	cse	2-2	42231486 3763
3 0	rahamtunnisashaik09@gmai l.com	Shaik Rahamtu nnisa	21KP1A 44A0	Shaik.mahab oobjani	Shaik.m unni	DS	8.00	18	Data science	2-2	40697616 9351
3 2	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A 4476	Appa rao Patcha	Renuka Patcha	DS	0.75	18	Data Scienc e	2-2	57304188 0949

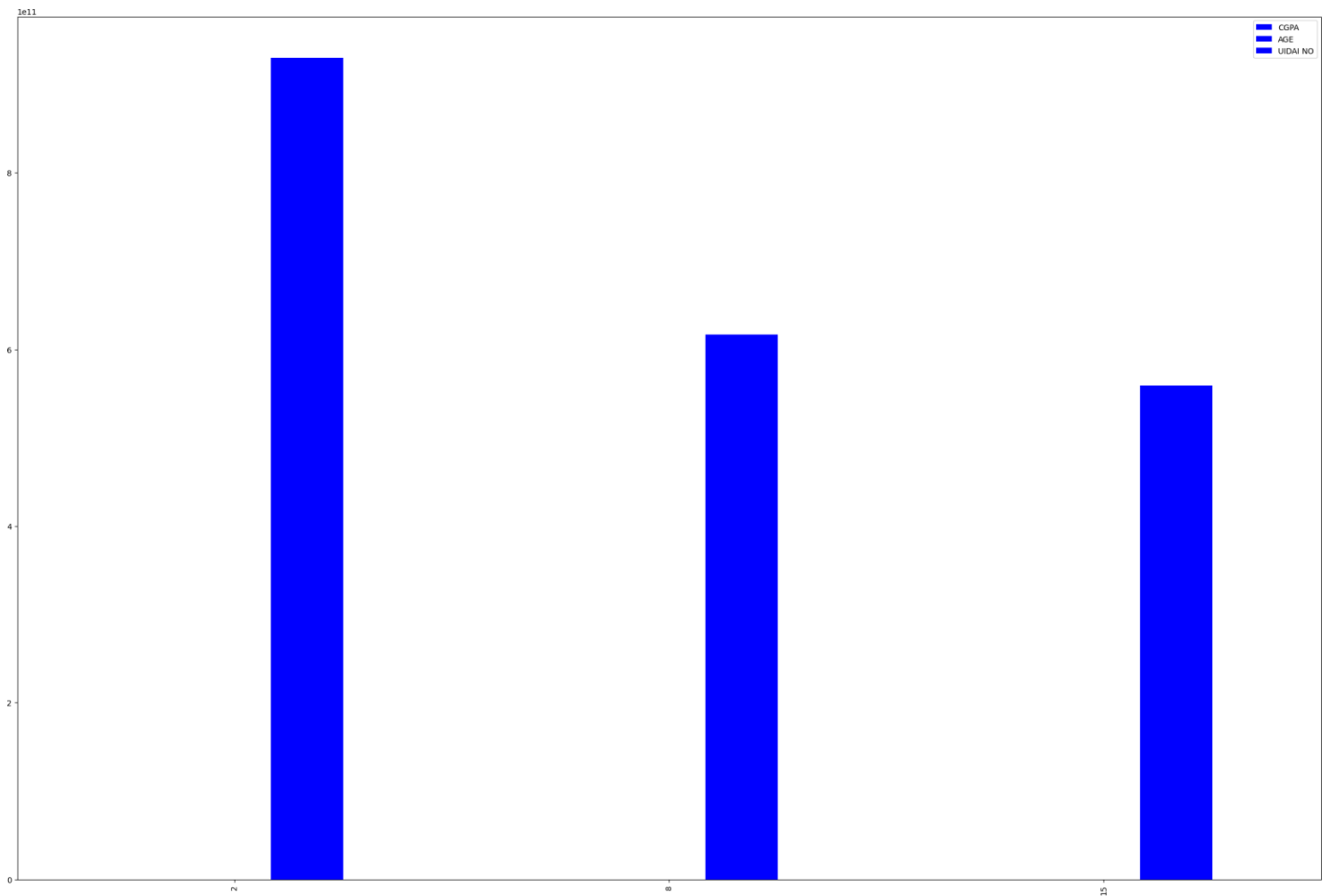df4.plot.bar(color=['blue','yellow','green'])
df4

	Gmail	STUDE NT NAME	ROLL NUMBE R	FATHER NAME	MOTH ER NAME	COU RSE	CG PA	A GE	BRAN CH	SEMIS TER	UIDAI NO
2 8	hemasanjushasanikommu82 8@gmail.com	hema sanjusha	21KP1A 4491	musalareddy	sivaparv athi	CSE	73.0 0	18	cse	2-2	42231486 3763
3 0	rahamtunnisashaik09@gmai l.com	Shaik Rahamtu nnisa	21KP1A 44A0	Shaik.mahab oobjani	Shaik.m unni	DS	8.00	18	Data science	2-2	40697616 9351
3 2	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A 4476	Appa rao Patcha	Renuka Patcha	DS	0.75	18	Data Scienc e	2-2	57304188 0949

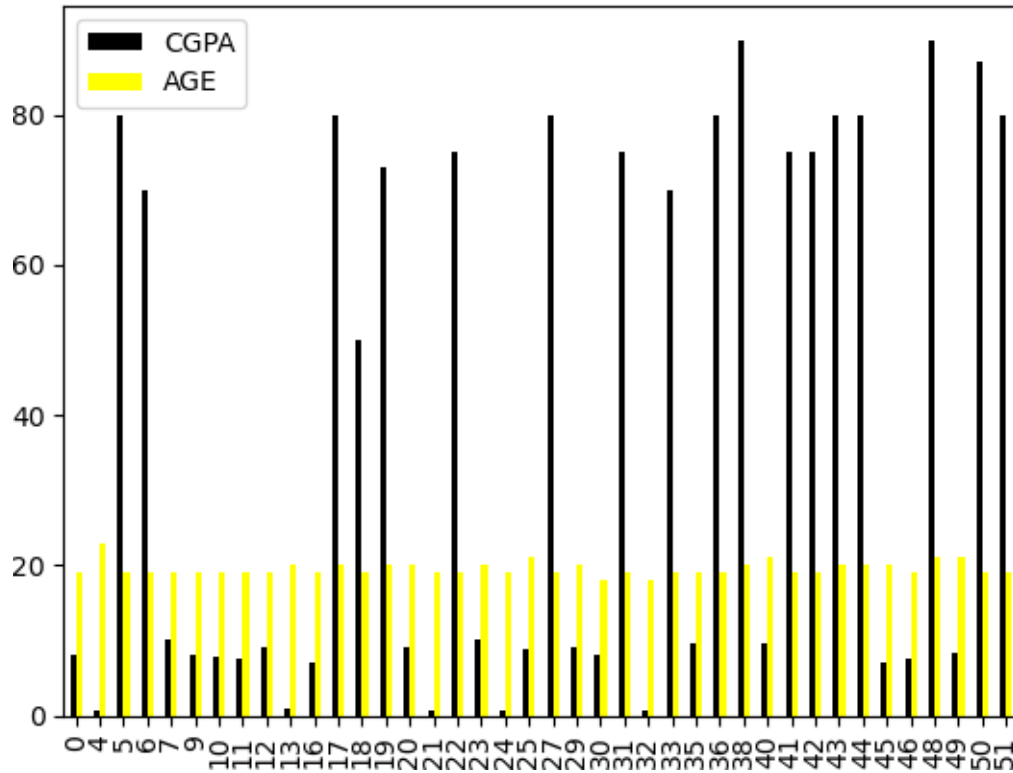**<u>Displaying plot bar by AGE,CGPA,UIDAI NO</u>**

Displaying the plot bars

df2.plot.bar(color=['blue'],figsize=(30,20))

<u>Displaying the CGPAand age of students</u>

df.plot.bar(color=['black','yellow','purple'])

<Axes: >

df5

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRANCH	SEMISTER	UIDAI NO
0	vennachandana1@gmail.com	Venna Chandana	21KP1A 44C5	Venna Ramanareddy	Venna Lakshmidevi	DS	8.00	19	Data science	2-2	6363369 22883
1	adilakshmi4765@gmail.com	N.Venkatesh	21KP1A 4468	N.Manikya Rao	N.Sri Lakshmi	CSE	83.00	19	CSE-DS	II-II	6025152 58256
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1A 44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	80.00	19	CSD	2-2	7245745 88425
6	charithareddy3914@gmail.com	P.charitha reddy	21KP1A 4475	P.Madhava Reddy	P.Kavitha	DS	70.00	19	CSD	2.2	8101775 24502
7	gayathripolepalli70@gmail.com	POLEPALLI. GAYATHRI	21KP1A 4481	POLEPALLI. GURUBR AHMA CHARI	POLEPALLI. SRIDEVI	DS	10.00	19	Data Science	2-2	7218191 68061
8	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1A 44A9	Syed Rahiman	Syed Naseema	MECH	8.00	19	DS	2-2	6170203 54793

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9	sowjanyathota11@gmail.com	T.SOWJANYA	21KP1A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8.00	19	DATA SCIENCE	2-2	338666948901
10	tammasahithi1@gmail.com	Tamma Sahithi	21KP1A44B0	Tamma krishna reddy	Tamma Padmavathi	DS	7.70	19	CSE (Data science)	2-2	685349832128
11	podilisarayu6@gmail.com	PODILI LAKSHMISARAYU	21KP1A4480	PODILI RAMESH	PODILI ADILAKSHMI	DS	7.50	19	DATA SCIENCE	2-2	458689741091
12	shaikkarishma811@gmail.com	shaik karishma	21KP1A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9.00	19	ds	2-2	663048521599
15	manu952041@gmail.com	Pachipulusu Manohar	21KP1A4472	Pachipulusu Prasad	Pachipulusu Bhavani	MECH	8.50	19	Data Science	2-2	559366114423
16	vanukuri.raghava@gmail.com	Raghava	21KP1A44C3	Srinivasa reddy	Jyothi	DS	7.00	19	Data science	2-2	424973081348
18	us465249@gmail.com	S sk usman	21KP1A4492	S sk mastan vali	Mahabobba	DS	50.00	19	DS	2-2	568753875709
21	farukh.786syed@gmail.com	SYED.FARUKH	21KP1A44A7	SYED.BAJI	SYED.SARTHAJ BEGUM	DS	0.70	19	DS	2-2	764320730678
22	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1A44C7	Chinna anjayya	Lakshmi narayanama	DS	75.00	19	CSD	2-2	830785066037
24	thammisettysrikanthraj9@gmail.com	T.Srikanth	21KP1A44B5	T.vasu	T.jaya	DS	0.75	19	Data Science	2-2	673112205183
27	ravuakshaya@gmail.com	Ravu.akshaya	21KP1A4485	Ravu.srinivasrao	Ravu.aruna kumari	DS	80.00	19	Ds	2.2	544305783128
31	harikabangaram313@gmail.com	Harika	22KP5A4401	A.Subramanyam	A.Dhana Bhagyam	DS	75.00	19	Data science	2-2	574930568520
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1A4490	Mohan krishna	Usha rani	DS	70.00	19	Ds	2-2	274736890047
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CSE	70.00	19	Cse-Data Science	2_2	587480445790
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1A44B2	T sathyanarayana	T rama devi	DS	9.60	19	Data Science	2-2	357228202835

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3 6	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1A4487	Rayapati hanumathrao	Rayapati malleswari	DS	80.00	19	Ds	2-2	963360828294
3 7	indhupotla123@gmail.com	indhu priya	21KP1A4483	Lakshmanarayana	Sujatha	CSE	72.00	19	cse	2-2	524345891620
3 9	jaffershaik718@gmail.com	Jaffer shaik	21KP1A4495	shaik.LaiLaha	shaik.Ramjanbee	CSE	70.00	19	cse	2nd	912229276699
4 1	reshmayalamanchi@gmail.com	Reshma yalamanchi	21KP1A44C9	Yalamanchi subba Rao	Yalamanchi sunitha	DS	75.00	19	DS	4	742366316353
4 2	thiriveedhinagajyothi@gmail.com	T. Nagajyothi	21KP1A44B7	T. Venkayya	T. Ramanjamma	DS	75.00	19	DS	4	330477145525
4 6	nrajasambasivarao@gmail.com	Narra Raja Samba Siva Rao	21KP1A4471	Narra SrinivasaRao	Narra Ramadevi	DS	7.50	19	CSD (Data science)	4	835457902826
4 7	saisairam068@gmail.com	Sairam	21kp1a44b4	Venkata subbiah	Ravanamma	CSE	10.00	19	Da	2-2	746109575146
5 0	arundathi0508@gmail.com	PANDA UMA ARUNDATHI	21KP1A4474	PANDA NARAYANA RAO	PANDA PRASANNA LAKSHMI	DS	87.00	19	CSD	2-2	652650486629
5 1	chinnivignesh144@gmail.com	chinni vignesh teja yadav	21KP1A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	80.00	19	Data Science	4th semester	639534870436

y=df5.CGPA.value_counts()
y

```
80.00    4
70.00    4
75.00    4
8.00     3
10.00    2
7.50     2
0.70     1
72.00    1
9.60     1
0.75     1
8.50     1
50.00    1
7.00     1
```

```
83.00    1
9.00     1
7.70     1
87.00    1
Name: CGPA, dtype: int64
```
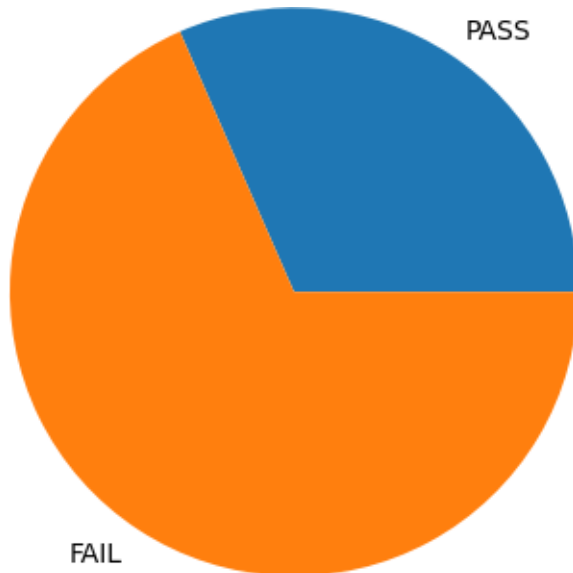
Visualizing the pass and fail percentage of students

df12=pd.DataFrame({"Resultt":['PASS','FAIL'],"vals":[6,13]})
plt.pie(df12["vals"],labels=df12["Resultt"])
plt.show()

`

df11=df4.CGPA.value_counts
()df11

```
73.00    1
8.00     1
0.75     1
Name: CGPA, dtype: int64
```

<u>Visualizing the CGPA values</u>

e=plt.pie(df11)
plt.show()

df32=df.BRANCH.value_counts()

df32

```
CSD                                           6
DS                                            6
Data science                                  5
Ds                                            4
Data Science

Data Science                                  3
DATA SCIENCE                                  2
Data science                                  2
Computer science                              1
CSE (Data science)                            1
ds                                            1
Computer Science Engineering& Data Science    1
Computer Science                              1
CSD (Data Science)                            1
DATASCIENCE                                   1
CSD (Data science)                            1
Name: BRANCH, dtype: int64
                                              4
```

<u>SUMMARY</u>

The project aims to Visualize the academic performance of students fromdifferent branches in a BTech collage. By collecting and analyzing the student data, including marks and rankings, the project seeks to provide insights into distribution of academic excellence across various branches.

By Visualizing student performance and rankings, this project aims to facilitate data-driven decision-making and promote continuous improvement in Academic quality within the BTech colleges.