

A PROJECT
On
STUDENT DATABASE ANALYSIS USING
PYTHON

BACHELOR OF TECHNOLOGY
By
DEPARTMENT OF DATA SCIENCE

MULA POOJITHA

21KP1A4467

Under the esteemed Guidance of

Er.S AKSHAY KUMAR

CS CODENZ



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GUDIVADA – 521 323, ANDHRA PRADESH., INDIA
2022-2023

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CERTIFICATE

This is to certify that dissertation entitled “**STUDENT DATABASE ANALYSIS USING PYTHON**” submitted by **MULA POOJITHA(21KP1A4467)** in the partial fulfillment of the requirements for the award of the degree of **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

Er.S AKSHAY KUMAR

CS CODENZ

Signature of the HOD

D.KOTESWARA RAO_{M.Tech}

**Associate professor & HOD
Data Science,NRIIT**

DECLARATION

I MULA POOJITHA (21KP1A4467) declared that the dissertation report entitled “**STUDENT DATABASE ANALYSIS USING PYTHON**” is no more than 1,00,000 words in length including quotes and exclusive of tables, figures, bibliography, and references.

Roll No

Name

Signature

21KP1A4467

**MULA
POOJITHA**

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 his. Without his this dissertation would not have 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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ABSTRACT

The Primary objective of this “**STUDENT DATABASE ANALYSIS USING PYTHON**” is to fulfill customer satisfaction and good trust along with challenges of the businesses. It includes data of historical warranty claims and real-time monitoring capabilities.

The project also focuses on achieving a high level of accuracy to find the frauds minimizing false positives. It will provide an interface for analysts to easily observe the frauds. It aims to provide a powerful tool to detect and combat warranty claim fraud. This is also help in reducing financial losses to the business providers.

REQUIREMENTS

HARDWARE REQUIREMENTS

- Personal Computer / Laptop with minimum RAM (16 GB), ROM (512 GB) and Processor(i5)
- Good latency internet access

SOFTWARE REQUIREMENTS

- Basic Search Engine (Google)
- Google Collaboratory
- MICROSOFT WORD

FUNCTIONAL REQUIREMENTS

- Calculation
- 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. Defining the Question
2. Collecting the data
3. Cleaning the data
4. Analyzing the data
5. Sharing your results
6. Embracing your failures
7. Summary

CODE

1) DEFINING THE QUESTION :

The first step in any data analysis process is to define your objective. In data analytics **jargon**, this is sometimes called the ‘problem statement’. The problem at hand is to develop an efficient and accurate warranty claim fraud detection system.

2) COLLECTING THE DATA:

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

Pandas Package – It’s a group of Panel 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-

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_excel('dsdbx.xlsx')# reading the data
print(df)
```

OUTPUT:

	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
3	2023-06-13 14:26:01.824	sandeepyeruva1124@gmail.com	
4	2023-06-13 14:26:13.848	sivajibejjanki@gmail.com	
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6	2023-06-13 14:27:05.330	charithareddy3914@gmail.com	
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10	2023-06-13 14:28:10.559	tammasahithil@gmail.com	
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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.com	
21	2023-06-13 14:32:17.269	farukh.786syed@gmail.com	
22	2023-06-13 14:33:08.038	anushayalabolul2@gmail.com	

23	2023-06-13	14:33:16.147	madhulathasure9@gmail.com
24	2023-06-13	14:34:00.504	thammisettysrikanthraj9@gmail.com
25	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
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40	2023-06-13	14:50:28.282	rabbanihaik7356@gmail.com
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47	2023-06-14	09:22:24.620	saisairam068@gmail.com
48	2023-06-14	09:34:41.202	sriharshanallabothu@gmail.com
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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 mallewari	DS	80	19
37	Sujatha	CSE	72	19
38	Bandi.Krishna veni	DS	90	20
39	shaik.Ramjan bee	CSE	70	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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19	vallu.srinu756939@gmail.com
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22	anushayalabolul2@gmail.com
23	madhulathasure9@gmail.com
24	thammisettysrikanthraj9@gmail.com
25	mobinsk9966@gmail.com
26	abdulkhadar6842@gmail.com
27	ravuakshaya@gmail.com
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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 reshmamayalamanchi@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
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
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9	338666948901
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14	744020413963
15	559366114423
16	424973081348
17	529261464345
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27	544305783128
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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

```

```

df.info()
data1=df.notnull()
print(data1)
data=df[df.duplicated()]
df

```

OUTPUT :

	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
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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.com
21	2023-06-13 14:32:17.269	farukh.786syed@gmail.com
22	2023-06-13 14:33:08.038	anushayalabolul2@gmail.com
23	2023-06-13 14:33:16.147	madhulathasure9@gmail.com
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25	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	paladugudurgal@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	21kpla44b4	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	70	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

EMAIL

0	vennachandana1@gmail.com
1	adilakshmi4765@gmail.com
2	sravankumar7156@gmail.com
3	sandeepyeruva1124@gmail.com
4	sivajibejjanki@gmail.com
5	ramyayalabolul23r@gmail.com
6	charithareddy3914@gmail.com
7	gayathripolepalli70@gmail.com
8	syedtasleem07@gmail.com
9	sowjanyaathota11@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	anushayalabolul2@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	thiriveedhinagajyothei@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
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	

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	63953487043

```
df.drop(['EMAIL','Timestamp'],axis=1,inplace=True)#deleting the columns
```

```
df.isnull().sum()# deleting the rows and columns
```

OUTPUT:

```
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
```

In [4]:

```
# filling null values in branch
df.fillna('Data Science',inplace=True)
print(df.info())
```

OUTPUT:

```
<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
```

```
# finding null values
df.isnull().sum()
```

OUTPUT:

```
Email address      0
```

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

```
#shaping the data frame
df.shape
```

OUTPUT:

```
(52, 11)
```

```
# renaming the columns in the data frame
df.rename(columns={'Email address':'Gmail','CURRENT SEMESTER':'SEMISTER','AADHAAR NO':'UIDAI'},inplace=True)
print(df.columns)
```

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

```
#replacing the inconsistent values
df.replace({'70':70},inplace=True)
print(df)
```

OUTPUT:

	Gmail	STUDENT NAME \
0	vennachandana1@gmail.com	Venna Chandana
1	adilakshmi4765@gmail.com	N.Venkatesh
2	sravankumar7156@gmail.com	Sravan Kumar
3	sandeepyeruval124@gmail.com	Yeruva sandeep reddy
4	sivajibejjanki@gmail.com	B.sivaji
5	ramyayalabolul23r@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	sowjanyaathotal1@gmail.com	T.SOWJANYA
10	tammasahithil@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
	ROLL NUMBER	FATHER NAME
0	21KP1A44C5	Venna Ramanareddy
1	21KP1A4468	N.Manikya Rao
2	21KP1A4488	Rama Chandra Rao
3	21KP1A44D1	Yeruva Ajay Kumar reddy
4	22kp5a4402	B.lakshmaiah
5	21KP1A44C8	Y.Anjaiah
6	21KP1A4475	P.Madhava Reddy
7	21KP1A4481	POLEPALLI. GURUBRAHMA CHARI
8	21KP1A44A9	Syed Rahiman
9	21KP1A44B6	T.SAMBA SIVA RAO
10	21KP1A44B0	Tamma krishna reddy
11	21KP1A4480	PODILI RAMESH
12	21KP1A4496	SHAIK BAJI
13	21KP1A44C0	Veeraswamy.v
14	21KP1A4477	Patcha apparao
15	21KP1A4472	Pachipulusu Prasad
16	21KP1A44C3	Srinivasa reddy
17	21KP1A44A3	Shaik Rahim babu
18	21KP1A4492	S sk mastan vali
19	21KP1A44C1	Vallu Srinivasa Rao
20	21KP1A44B9	Undela Chinna Obula Reddy
	COURSE	CGPA
0	DS	8.00
1	CSE	83.00
2	MECH	7.00
3	CSE	9.50
4	DS	0.72
5	DS	80.00
6	DS	70.00
7	DS	10.00
8	MECH	8.00
9	DS	8.00
10	DS	7.70
11	DS	7.50
12	DS	9.00
13	DS	0.98
14	CSE	0.99
15	MECH	8.50
16	DS	7.00
17	DS	80.00
18	DS	50.00
19	DS	73.00
20	DS	9.20
21	DS	0.70
22	DS	75.00
23	DS	10.00
24	DS	0.75
25	DS	8.80
	AGE	BRANCH
0	19	Data science
1	19	CSE-DS
2	20	mech
3	20	CSE
4	23	Computer science
5	19	CSD
6	19	CSD
7	19	Data Science
8	19	DS
9	19	DATA SCIENCE
10	19	CSE (Data science)
11	19	DATA SCIENCE
12	19	ds
13	20	Data Science
14	20	Data science
15	19	Data Science
16	19	Data science
17	20	DS
18	19	DS
19	20	Computer Science Engineering& Data Science
20	20	Computer Science
21	19	DS
22	19	CSD
23	20	Data science
24	19	Data Science
25	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

	CURRENT SEMISTER	AADHAAR 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

```
# FINDING THE CGPA IN FLOAT
df.CGPA=df.CGPA.replace("%",'').astype(float)
print(df)
```

OUTPUT:

	Gmail	STUDENT NAME \
0	vennachandana1@gmail.com	Venna Chandana
1	adilakshmi4765@gmail.com	N.Venkatesh
2	sravankumar7156@gmail.com	Sravan Kumar
3	sandeepyeruval124@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	gayathriplepalli70@gmail.com	POLEPALLI. GAYATHRI
8	syedtasleem07@gmail.com	Syed Tasleem Afroze
9	sowjanyaathotall@gmail.com	T.SOWJANYA
10	tammasahithil@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 NAME	MOTHER 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
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

	CURRENT SEMISTER	AADHAAR 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

```
# REPLACING THE AADHAR NO
df.replace({75:546786556789}, inplace=True)
df
```

OUTPUT :

G m ail	STUDENT NAME	ROLL NUMBE R	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO
0	vennachandana1@gmail.com	Venna Chandan a	21KP1 A44C5	Venna Ramanared dy	Venna Lakshmid e vi	DS	8.0000 00e+0 0	19	Data science	2-2 636336 922883
1	adilakshmi4765@gmail.com	N.Venkat esh	21KP1 A4468	N.Manikya Rao	N.Sri Lakshmi	CS E	8.3000 00e+0 1	19	CSE- DS	II-II 602515 258256
2	sravankumar7156@gmail.com	Sravan Kumar	21KP1 A4488	Rama Chandra Rao	Venkatesw aramma	ME CH	7.0000 00e+0 0	20	mech	4 930319 053088
3	sandeepyeruva1124@gmail.com	Yeruva sandeep reddy	21KP1 A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CS E	9.5000 00e+0 0	20	CSE	2-3 576154 990146
4	sivajibejjanki@gmail.com	B.sivaji	22kp5 a4402	B.lakshmaia h	B.veramm a	DS	7.2000 00e-01	23	Comput er science	2-2 895444 662410

G m ail	STUDENT NAME	ROLL NUMBE R	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO	
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1 A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	8.0000 00e+0 1	19	CSD	2-2	724574 588425
6	charithareddy3914@gmail.com	P.charith a reddy	21KP1 A4475	P.Madhava Reddy	P.Kavitha	DS	7.0000 00e+0 1	19	CSD	2.2	810177 524502
7	gayathripolepalli70@gmail.com	POLEPA LLI. GAYATH RI	21KP1 A4481	POLEPALLI GURUBRA HMA CHARI	POLEPAL LI.SRIDEV I	DS	1.0000 00e+0 1	19	Data Science	2-2	721819 168061
8	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1 A44A9	Syed Rahiman	Syed Naseema	ME CH	8.0000 00e+0 0	19	DS	2-2	617020 354793
9	sowjanya11@gmail.com	T.SOWJ ANYA	21KP1 A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8.0000 00e+0 0	19	DATA SCIEN CE	2-2	338666 948901
10	tammasahithi1@gmail.com	Tamma Sahithi	21KP1 A44B0	Tamma krishna reddy	Tamma Padmavat hi	DS	7.7000 00e+0 0	19	CSE (Data science)	2-2	685349 832128
11	podilisaray6@gmail.com	PODILI LAKSHM ISARAY U	21KP1 A4480	PODILI RAMESH	PODILI ADILAKSH MI	DS	7.5000 00e+0 0	19	DATA SCIEN CE	2-2	458689 741091
12	shaikkarishma811@gmail.com	shaik karishma	21KP1 A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9.0000 00e+0 0	19	ds	2-2	663048 521599
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1 A44C0	Veeraswam y.v	Lakshmi.v	DS	9.8000 00e-01	20	Data Science	2-2	510305 345824
14	patchachinnu3@gmail.com	Patcha Jaswanth	21KP1 A4477	Patcha apparao	Patcha sukanya	CS E	9.9000 00e-01	20	Data science	2-2	744020 413963
15	manu952041@gmail.com	Pachipul usu Manohar	21KP1 A4472	Pachipulusu Prasad	Pachipulus u Bhavani	ME CH	8.5000 00e+0 0	19	Data Science	2-2	559366 114423
16	vanukuri.raghava@gmail.com	Raghava	21KP1 A44C3	Srinivasa reddy	Jyothi	DS	7.0000 00e+0 0	19	Data science	2-2	424973 081348
17	shaiksakina05@gmail.com	Shaik sameer	21KP1 A44A3	Shaik Rahim babu	Shaik Raziya	DS	8.0000 00e+0 1	20	DS	2-2	529261 464345

G m ail	STUDENT NAME	ROLL NUMBE R	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO	
18	us465249@gmail.co m	S sk usman	21KP1 A4492	S sk mastan vali	Mahabobb a	DS	5.0000 00e+0 1	19	DS	2-2	568753 875709
19	vallu.srinu756939@g mail.com	Vallu Srinu Siva Subrahm anyam	21KP1 A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	7.3000 00e+0 1	20	Comput er Science Engine ering& Data Science	4	546786 556789
20	undelachandraobular eddy@gmail.com	Undela Chandra Obula Reddy	21KP1 A44B9	Undela Chinna Obula Reddy	Undela GuruLaksh mi	DS	9.2000 00e+0 0	20	Comput er Science	2-2	693621 780842
21	farukh.786syed@gm ail.com	SYED.FA RUKH	21KP1 A44A7	SYED.BAJI	SYED.SA RTHAJ BEGUM	DS	7.0000 00e-01	19	DS	2-2	764320 730678
22	anushayalabolu12@g mail.com	Anusha yalabolu	21KP1 A44C7	Chinna anjayya	Lakshmi narayana ma	DS	5.4678 66e+1 1	19	CSD	2-2	830785 066037
23	madhulathasure9@g mail.com	SURE. MADHUL ATHA	21KP1 A44A4	SURE.VIS WANADHA M	SURE.SAI LAKSHMI	DS	1.0000 00e+0 1	20	Data science	2-2	776486 062608
24	thammisettyarikanth raj9@gmail.com	T.Srikant h	21KP1 A44B5	T.vasu	T.jaya	DS	7.5000 00e-01	19	Data Science	2-2	673112 205183
25	shiakmobin2002@gm ail.com	Shaikmo bin	21KP1 A4497	shaik karimullah	Shaik rihana	DS	8.8000 00e+0 0	21	Ds	2.2	904355 656468
26	abdulkhadar6842@g mail.com	Shaik.Ab dul Khadar	21KP1 A4493	Shaik.Karee m	Shaik.Farj ana	EC E	8.0000 00e+0 0	20	Data Science	2-2	334708 289154
27	ravuakshaya@gmail. com	Ravu.aks haya	21KP1 A4485	Ravu.sriniv asrao	Ravu.arun a kumari	DS	8.0000 00e+0 1	19	Ds	2.2	544305 783128
28	hemasanjushasaniko mmu828@gmail.com	hema sanjusha	21KP1 A4491	musalaredd y	sivaparvat hi	CS E	7.3000 00e+0 1	18h	cse	2-2	422314 863763
29	ynagasasikumar@gm ail.com	Y Naga Sasi Kumar	21KP1 A44D0	Y Rama mohanarao	Y Lalitha	DS	9.2000 00e+0 0	20	Data Science	2-2	448172 496292
30	rahamtunnisashaik09 @gmail.com	Shaik Rahamtu nnisa	21KP1 A44A0	Shaik.maha boobjani	Shaik.mun ni	DS	8.0000 00e+0 0	18	Data science	2-2	406976 169351

G m ail	STUDENT NAME	ROLL NUMBE R	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO	
31	harikabangaram313@gmail.com	Harika	22KP5 A4401	A.Subrama nyam	A.Dhana Bhagyam	DS	5.4678 66e+1 1	19	Data science	2-2	574930 568520
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1 A4476	Appa rao Patcha	Renuka Patcha	DS	7.5000 00e-01	18	Data Science	2-2	573041 880949
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1 A4490	Mohan krishna	Usha rani	DS	7.0000 00e+0 1	19	Ds	2-2	274736 890047
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhams ha	21KP1 A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CS E	7.0000 00e+0 1	19	Cse- Data Science	2_2	587480 445790
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1 A44B2	T sathyanaray ana	T rama devi	DS	9.6000 00e+0 0	19	Data Science	2-2	357228 202835
36	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1 A4487	Rayapati hanumathra o	Rayapati malleswari	DS	8.0000 00e+0 1	19	Ds	2-2	963360 828294
37	indhupotla123@gmail.com	indhu priya	21KP1 A4483	Lakshmana rayana	Sujatha	CS E	7.2000 00e+0 1	19	cse	2-2	524345 891620
38	abdulabdul22070@gmail.com	Syed.Abd ul Rehaman	21KP1 A44A6	Syed.Meera Sharif	Bandi.Kris hna veni	DS	9.0000 00e+0 1	20	DS	2-2	347853 509974
39	jaffershaik718@gmail.com	Jaffer shaik	21KP1 A4495	shaik.LaiLa ha	shaik.Ramj an bee	CS E	7.0000 00e+0 1	19	cse	2nd	912229 276699
40	rabbanishaik7356@gmail.com	SHAIK RABBAN I	21KP1 A4499	SHAIK MOHAMMA D HANIF	SHAIK MALIN	DS	9.5000 00e+0 0	21	CSD	2-2	205933 956204
41	reshmayalamanchi@gmail.com	Reshma yalamanc hi	21KP1 A44C9	Yalamanchi subba Rao	Yalamanc hi sunitha	DS	5.4678 66e+1 1	19	DS	4	742366 316353
42	thiriveedhinagajyothis@gmail.com	T. Nagajyot hi	21KP1 A44B7	T. Venkayya	T. Ramanjam ma	DS	5.4678 66e+1 1	19	DS	4	330477 145525
43	paladugudurga1@gmail.com	P. Durga Sri	21KP1 A4473	P. Amareswar a rao	P. Seshu Kumari	DS	8.0000 00e+0 1	20	CSD(D ata Science)	2-2	692162 661608

G m ail	STUDENT NAME	ROLL NUMBE R	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO
44	saidashaik371@gmai l.com	SHAIK SAIDA ANWAR BASHA	21KP1 A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANB I	DS	8.0000 00e+0 1	20	DATAS CIENC E	2-2 466722 650274
45	mvkbn1312@gmail.c om	R.M.V.K. Brahma Naidu	21KP1 A4489	Yedukondal u	Nirmala	DS	7.0000 00e+0 0	20	Data science	2-2 2387 7088 9424
46	nrajasambasivarao@ gmail.com	Narra Raja Samba Siva Rao	21KP1 A4471	Narra SrinivasaRa o	Narra Ramadevi	DS	7.5000 00e+0 0	19	CSD (Data science)	4 835457 902826
47	saisairam068@gmail. com	Sairam	21kp1 a44b4	Venkata subbiah	Ravanam ma	CS E	1.0000 00e+0 1	19	Da	2-2 746109 575146
48	sriharshanallabothu @gmail.com	Nallaboth u. Sri Harsha	21KP1 A4469	Nallabothu. Anjaneyulu	Nallabothu . Anitha	DS	9.0000 00e+0 1	21	CSD	2-2 208611 060176
49	bhuvanstarpuli@gmai l.com	Puli bhuvanes war	21KP1 A4484	Puli mallikarjuna	Puli ramadevi	DS	8.3000 00e+0 0	21	Data science	2.2 950519 207474
50	arundathi0508@gmai l.com	PANDA UMA ARUNDA THI	21KP1 A4474	PANDA NARAYAN A RAO	PANDA PRASANN A LAKSHMI	DS	8.7000 00e+0 1	19	CSD	2-2 652650 486629
51	chinnivignesh144@g mail.com	chinni vignesh teja yadav	21KP1 A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	8.0000 00e+0 1	19	Data Science	4th seme ster 639534 870436

#FINDING CGPA IN DECENDING ORDER
df.nlargest(52, "CGPA")

OUTPUT :

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO
42	thriveedhinagajyothe @gmail.com	T. Nagajyothe	21KP1 A44B7	T. Venkayya	T. Ramanjamm a	DS	5.4678 66e+11	19	DS	4 330477 145525
31	harikabangaram313@ gmail.com	Harika	22KP5 A4401	A.Subramany am	A.Dhana Bhagyam	DS	5.4678 66e+11	19	Data science	2-2 574930 568520
22	anushayalabolu12@g mail.com	Anusha yalabolu	21KP1 A44C7	Chinna anjayya	Lakshmi narayanama	DS	5.4678 66e+11	19	CSD	2-2 830785 066037

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO	
41	reshmayalamanchi@gmail.com	Reshma yalamanchi	21KP1 A44C9	Yalamanchi subba Rao	Yalamanchi sunitha	DS	5.4678 66e+11	19	DS	4	742366 316353
38	abdulabdul22070@gmail.com	Syed.Abdul Rehman	21KP1 A44A6	Syed.Meera Sharif	Bandi.Krish na veni	DS	9.0000 00e+01	20	DS	2-2	347853 509974
48	sriharshanallabothu@gmail.com	Nallabothu .Sri Harsha	21KP1 A4469	Nallabothu. Anjaneyulu	Nallabothu. Anitha	DS	9.0000 00e+01	21	CSD	2-2	208611 060176
50	arundathi0508@gmail.com	PANDA UMA ARUNDA THI	21KP1 A4474	PANDA NARAYAN A RAO	PANDA PRASANN A LAKSHMI	DS	8.7000 00e+01	19	CSD	2-2	652650 486629
1	adilakshmi4765@gmail.com	N.Venkatesh	21KP1 A4468	N.Manikya Rao	N.Sri Lakshmi	CS E	8.3000 00e+01	19	CSE-DS	II-II	602515 258256
51	chinnivignesh144@gmail.com	chinnivignesh teja yadav	21KP1 A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	8.0000 00e+01	19	Data Science	4th semester	639534 870436
36	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1 A4487	Rayapati hanumathrao	Rayapati malleswari	DS	8.0000 00e+01	19	Ds	2-2	963360 828294
27	ravuakshaya@gmail.com	Ravu.akshaya	21KP1 A4485	Ravu.srinivas rao	Ravu.aruna kumari	DS	8.0000 00e+01	19	Ds	2.2	544305 783128
17	shaiksakina05@gmail.com	Shaik sameer	21KP1 A44A3	Shaik Rahim babu	Shaik Raziya	DS	8.0000 00e+01	20	DS	2-2	529261 464345
44	saidashaik371@gmail.com	SHAIK SAIDA ANWAR BASHA	21KP1 A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANBI	DS	8.0000 00e+01	20	DATAS CIENCE	2-2	466722 650274
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1 A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	8.0000 00e+01	19	CSD	2-2	724574 588425
43	paladugudurga1@gmail.com	P. Durga Sri	21KP1 A4473	P. Amareswara rao	P. Seshu Kumari	DS	8.0000 00e+01	20	CSD(Data Science)	2-2	692162 661608
28	hemasanjushasanikommu828@gmail.com	hema sanjusha	21KP1 A4491	musalareddy	sivaparvathi	CS E	7.3000 00e+01	18h	cse	2-2	422314 863763
19	vallu.srinu756939@gmail.com	Vallu Srinu Siva Subrahman yam	21KP1 A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	7.3000 00e+01	20	Computer Science Engineering & Data Science	4	546786 556789
37	indhupotla123@gmail.com	indhu priya	21KP1 A4483	Lakshmanara yana	Sujatha	CS E	7.2000 00e+01	19	cse	2-2	524345 891620

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO	
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1 A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CS E	7.0000 00e+01	19	Cse- Data Science	2_2	587480 445790
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1 A4490	Mohan krishna	Usha rani	DS	7.0000 00e+01	19	Ds	2-2	274736 890047
39	jaffershaik718@gmail.com	Jaffer shaik	21KP1 A4495	shaik.LaiLah a	shaik.Ramja n bee	CS E	7.0000 00e+01	19	cse	2nd	912229 276699
6	charithareddy3914@gmail.com	P.charitha reddy	21KP1 A4475	P.Madhava Reddy	P.Kavitha	DS	7.0000 00e+01	19	CSD	2.2	810177 524502
18	us465249@gmail.com	S sk usman	21KP1 A4492	S sk mastan vali	Mahabobba	DS	5.0000 00e+01	19	DS	2-2	568753 875709
7	gayathripolepalli70@gmail.com	POLEPAL LI. GAYATH RI	21KP1 A4481	POLEPALLI. GURUBRAH MA CHARI	POLEPALL I.SRIDEVI	DS	1.0000 00e+01	19	Data Science	2-2	721819 168061
23	madhulathasure9@gmail.com	SURE. MADHUL ATHA	21KP1 A44A4	SURE.VISW ANADHAM	SURE.SAI LAKSHMI	DS	1.0000 00e+01	20	Data science	2-2	776486 062608
47	saisairam068@gmail.com	Sairam	21kp1a 44b4	Venkata subbiah	Ravanamma	CS E	1.0000 00e+01	19	Da	2-2	746109 575146
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1 A44B2	T sathyanaraya na	T rama devi	DS	9.6000 00e+00	19	Data Science	2-2	357228 202835
40	rabbanishaik7356@gmail.com	SHAIK RABBANI	21KP1 A4499	SHAIK MOHAMMA D HANIF	SHAIK MALIN	DS	9.5000 00e+00	21	CSD	2-2	205933 956204
3	sandeepyervuval124@gmail.com	Yeruva sandeep reddy	21KP1 A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CS E	9.5000 00e+00	20	CSE	2-3	576154 990146
20	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy	21KP1 A44B9	Undela Chinna Obula Reddy	Undela GuruLaksh mi	DS	9.2000 00e+00	20	Compute r Science	2-2	693621 780842
29	ynagasasikumar@gmail.com	Y Naga Sasi Kumar	21KP1 A44D0	Y Rama mohanarao	Y Lalitha	DS	9.2000 00e+00	20	Data Science	2-2	448172 496292
12	shaikkarishma811@gmail.com	shaik karishma	21KP1 A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9.0000 00e+00	19	ds	2-2	663048 521599
25	shiakmobin2002@gmail.com	Shaikmobi n	21KP1 A4497	shaik karimullah	Shaik rihana	DS	8.8000 00e+00	21	Ds	2.2	904355 656468

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO	
15	manu952041@gmail.com	Pachipulusu Manohar	21KP1 A4472	Pachipulusu Prasad	Pachipulusu Bhavani	ME CH	8.5000 00e+00	19	Data Science	2-2	559366 114423
49	bhuvanstarpuli@gmail.com	Puli bhuvaneswar	21KP1 A4484	Puli mallikarjuna	Puli ramadevi	DS	8.3000 00e+00	21	Data science	2.2	950519 207474
0	vennachandana1@gmail.com	Venna Chandana	21KP1 A44C5	Venna Ramanareddy	Venna Lakshmidevi	DS	8.0000 00e+00	19	Data science	2-2	636336 922883
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtunnisa	21KP1 A44A0	Shaik.mahab oobjani	Shaik.munni	DS	8.0000 00e+00	18	Data science	2-2	406976 169351
9	sowjanya11@gmail.com	T.SOWJANYA	21KP1 A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8.0000 00e+00	19	DATA SCIENC E	2-2	338666 948901
8	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1 A44A9	Syed Rahiman	Syed Naseema	ME CH	8.0000 00e+00	19	DS	2-2	617020 354793
26	abdulkhadar6842@gmail.com	Shaik.Abdul Khadar	21KP1 A4493	Shaik.Kareem	Shaik.Farjana	EC E	8.0000 00e+00	20	Data Science	2-2	334708 289154
10	tammasahithi1@gmail.com	Tamma Sahithi	21KP1 A44B0	Tamma krishna reddy	Tamma Padmavathi	DS	7.7000 00e+00	19	CSE (Data science)	2-2	685349 832128
11	podilisarayu6@gmail.com	PODILI LAKSHMI SARAYU	21KP1 A4480	PODILI RAMESH	PODILI ADILAKSHMI	DS	7.5000 00e+00	19	DATA SCIENC E	2-2	458689 741091
46	nrajasambasivarao@gmail.com	Narra Raja Samba Siva Rao	21KP1 A4471	Narra SrinivasaRao	Narra Ramadevi	DS	7.5000 00e+00	19	CSD (Data science)	4	835457 902826
16	vanukuri.raghava@gmail.com	Raghava	21KP1 A44C3	Srinivasa reddy	Jyothi	DS	7.0000 00e+00	19	Data science	2-2	424973 081348
45	mvkbn1312@gmail.com	R.M.V.K. Brahma Naidu	21KP1 A4489	Yedukondalu	Nirmala	DS	7.0000 00e+00	20	Data science	2-2	2387 7088 9424
2	sravankumar7156@gmail.com	Sravan Kumar	21KP1 A4488	Rama Chandra Rao	Venkateswaramma	ME CH	7.0000 00e+00	20	mech	4	930319 053088
14	patchachinnu3@gmail.com	Patcha Jaswanth	21KP1 A4477	Patcha apparao	Patcha sukanya	CS E	9.9000 00e-01	20	Data science	2-2	744020 413963
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1 A44C0	Veeraswamy.v	Lakshmi.v	DS	9.8000 00e-01	20	Data Science	2-2	510305 345824

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO	
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1 A4476	Appa rao Patcha	Renuka Patcha	DS	7.5000 00e-01	18	Data Science	2-2	573041 880949
24	thammisettsrikanthraj9@gmail.com	T.Srikanth	21KP1 A44B5	T.vasu	T.jaya	DS	7.5000 00e-01	19	Data Science	2-2	673112 205183
4	sivajibejjanki@gmail.com	B.sivaji	22kp5a 4402	B.lakshmaiah	B.veramma	DS	7.2000 00e-01	23	Compute r science	2-2	895444 662410
21	farukh.786syed@gmail.com	SYED.FA RUKH	21KP1 A44A7	SYED.BAJI	SYED.SAR THAJ BEGUM	DS	7.0000 00e-01	19	DS	2-2	764320 730678

In [26]:

```
#FINDING CGPA IN ASENDING ORDER
df.nsmallest(52, "CGPA")
```

OUTPUT:

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	A G E	BRA NCH	CURRE NT SEMIST ER	AAD HAA R NO	
21	farukh.786syed@gmail.com	SYED.FA RUKH	21KP1 A44A7	SYED.BAJI	SYED.SAR THAJ BEGUM	DS	0. 70	19	DS	2-2	764320 730678
4	sivajibejjanki@gmail.com	B.sivaji	22kp5 a4402	B.lakshmaiah	B.veramma	DS	0. 72	23	Comput er science	2-2	895444 662410
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1 A4476	Appa rao Patcha	Renuka Patcha	DS	0. 75	18	Data Science	2-2	573041 880949
24	thammisettysrikanthraj9@gmail.com	T.Srikanth	21KP1 A44B5	T.vasu	T.jaya	DS	0. 75	19	Data Science	2-2	673112 205183
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1 A44C0	Veeraswamy.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
16	vanukuri.raghava@gmail.com	Raghava	21KP1 A44C3	Srinivasa reddy	Jyothi	DS	7. 00	19	Data science	2-2	424973 081348
2	sravankumar7156@gmail.com	Sravan Kumar	21KP1 A4488	Rama Chandra Rao	Venkatesw aramma	ME CH	7. 00	20	mech	4	930319 053088
45	mvkbn1312@gmail.com	R.M.V.K. Brahma Naidu	21KP1 A4489	Yedukondal u	Nirmala	DS	7. 00	20	Data science	2-2	2387 7088 9424
46	nrajasambasivarao@gmail.com	Narra Raja Samba Siva Rao	21KP1 A4471	Narra SrinivasaRa o	Narra Ramadevi	DS	7. 50	19	CSD (Data science)	4	835457 902826
11	podilisaray6@gmail.com	PODILI LAKSHMI SARAYU	21KP1 A4480	PODILI RAMESH	PODILI ADILAKSHMI	DS	7. 50	19	DATA SCIENC E	2-2	458689 741091
10	tammasahithi1@gmail.com	Tamma Sahithi	21KP1 A44B0	Tamma krishna reddy	Tamma Padmavathi	DS	7. 70	19	CSE (Data science)	2-2	685349 832128
0	vennachandana1@gmail.com	Venna Chandana	21KP1 A44C5	Venna Ramanareddy	Venna Lakshmidivi	DS	8. 00	19	Data science	2-2	636336 922883
8	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1 A44A9	Syed Rahiman	Syed Naseema	ME CH	8. 00	19	DS	2-2	617020 354793

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	A G E	BRA NCH	CURRE NT SEMIST ER	AAD HAA R NO	
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtu nnisa	21KP1 A44A0	Shaik.maha boobjani	Shaik.mun ni	DS	8.00	18	Data science	2-2	406976 169351
26	abdulkhadar6842@gmail.com	Shaik.Abd ul Khadar	21KP1 A4493	Shaik.Kareem	Shaik.Farjana	EC E	8.00	20	Data Science	2-2	334708 289154
9	sowjanyaatha11@gmail.com	T.SOWJANYA	21KP1 A44B6	T.SAMBASIVA RAO	T.ARUNA KUMARI	DS	8.00	19	DATA SCIENCE	2-2	338666 948901
49	bhuvanstarpuli@gmail.com	Puli bhuvaneswar	21KP1 A4484	Puli mallikarjuna	Puli ramadevi	DS	8.30	21	Data science	2.2	950519 207474
15	manu952041@gmail.com	Pachipulusu Manohar	21KP1 A4472	Pachipulusu Prasad	Pachipulusu Bhavani	ME CH	8.50	19	Data Science	2-2	559366 114423
25	shiakmobin2002@gmail.com	Shaikmob in	21KP1 A4497	shaik karimullah	Shaik rihana	DS	8.80	21	Ds	2.2	904355 656468
12	shaikkarishma811@gmail.com	shaik karishma	21KP1 A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9.00	19	ds	2-2	663048 521599
20	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy	21KP1 A44B9	Undela Chinna Obula Reddy	Undela GuruLakshmi	DS	9.20	20	Comput er Science	2-2	693621 780842
29	ynagasasikumar@gmail.com	Y Naga Sasi Kumar	21KP1 A44D0	Y Rama mohanarao	Y Lalitha	DS	9.20	20	Data Science	2-2	448172 496292
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
40	rabbanishaik7356@gmail.com	SHAIK RABBANI	21KP1 A4499	SHAIK MOHAMMAD HANIF	SHAIK MALIN	DS	9.50	21	CSD	2-2	205933 956204
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1 A44B2	T sathyanarayana	T rama devi	DS	9.60	19	Data Science	2-2	357228 202835
47	saisairam068@gmail.com	Sairam	21kp1 a44b4	Venkata subbiah	Ravanamma	CS E	10.00	19	Da	2-2	746109 575146
23	madhulathasure9@gmail.com	SURE. MADHULATHA	21KP1 A44A4	SURE.VISWANADHAM	SURE.SAI LAKSHMI	DS	10.00	20	Data science	2-2	776486 062608
7	gayathripolepalli70@gmail.com	POLEPAL LI. GAYATHRI	21KP1 A4481	POLEPALLI. GURUBRAHMA CHARI	POLEPALLI.SRIDEVI	DS	10.00	19	Data Science	2-2	721819 168061

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	A G E	BRA NCH	CURRE NT SEMIST ER	AAD HAA R NO	
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
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhams ha	21KP1 A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CS E	70 .0 0	19	Cse- Data Science	2_2	587480 445790
6	charithareddy3914@gmail.com	P.charitha reddy	21KP1 A4475	P.Madhava Reddy	P.Kavitha	DS	70 .0 0	19	CSD	2.2	810177 524502
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1 A4490	Mohan krishna	Usha rani	DS	70 .0 0	19	Ds	2-2	274736 890047
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
37	indhupotla123@gmail.com	indhu priya	21KP1 A4483	Lakshmanar ayana	Sujatha	CS E	72 .0 0	19	cse	2-2	524345 891620
28	hemasanjushasaniko mmu828@gmail.com	hema sanjusha	21KP1 A4491	musalaredd y	sivaparvath i	CS E	73 .0 0	18h	cse	2-2	422314 863763
19	vallu.srinu756939@gmail.com	Vallu Srinu Siva Subrahm anyam	21KP1 A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73 .0 0	20	Comput er Science Enginee ring& Data Science	4	75
31	harikabangaram313@gmail.com	Harika	22KP5 A4401	A.Subraman yam	A.Dhana Bhagyam	DS	75 .0 0	19	Data science	2-2	574930 568520
42	thiriveedhinagajyothei@gmail.com	T. Nagajyoth i	21KP1 A44B7	T. Venkayya	T. Ramanjam ma	DS	75 .0 0	19	DS	4	330477 145525
41	reshmayalamanchi@gmail.com	Reshma yalamanc hi	21KP1 A44C9	Yalamanchi subba Rao	Yalamanch i sunitha	DS	75 .0 0	19	DS	4	742366 316353
22	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1 A44C7	Chinna anjayya	Lakshmi narayanam a	DS	75 .0 0	19	CSD	2-2	830785 066037
17	shaiksakina05@gmail.com	Shaik sameer	21KP1 A44A3	Shaik Rahim babu	Shaik Raziya	DS	80 .0 0	20	DS	2-2	529261 464345

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	A G E	BRA NCH	CURRE NT SEMIST ER	AAD HAA R NO	
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1 A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	80 .0 0	19	CSD	2-2	724574 588425
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
51	chinnivignesh144@gmail.com	chinni vignesh teja yadav	21KP1 A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	80 .0 0	19	Data Science	4th seme ster	639534 870436
36	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1 A4487	Rayapati hanumathra o	Rayapati malleswari	DS	80 .0 0	19	Ds	2-2	963360 828294
27	ravuakshaya@gmail.com	Ravu.aks haya	21KP1 A4485	Ravu.sriniva srao	Ravu.aruna kumari	DS	80 .0 0	19	Ds	2.2	544305 783128
43	paladugudurga1@gmail.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
1	adilakshmi4765@gmail.com	N.Venkat esh	21KP1 A4468	N.Manikya Rao	N.Sri Lakshmi	CS E	83 .0 0	19	CSE-DS	II-II	602515 258256
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
48	sriharshanallabothu@gmail.com	Nallaboth u. Sri Harsha	21KP1 A4469	Nallabothu. Anjaneyulu	Nallabothu. Anitha	DS	90 .0 0	21	CSD	2-2	208611 060176
38	abdulabdul22070@gmail.com	Syed.Abd ul Rehaman	21KP1 A44A6	Syed.Meera Sharif	Bandi.Krish na veni	DS	90 .0 0	20	DS	2-2	347853 50997

```
grouping=df.groupby(['AGE','BRANCH'])
grouping.first()
```

```
x=df.groupby('COURSE').get_group('DS').sort_values('COURSE')
print(x)
```

OUTPUT:

	Gmail	STUDENT NAME \
0	vennachandana1@gmail.com	Venna Chandana
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtunnisa
31	harikabangaram313@gmail.com	Harika
32	indupriya72216@gmail.com	Indu Priya Patcha
33	bhavyasrisajja2003@gmail.com	Bhavya sri
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad
36	nikitharayapati9@gmail.com	Nikhitha Rayapati
38	abdulabdul22070@gmail.com	Syed.Abdul Rehaman
29	ynagasasikumar@gmail.com	Y Naga Sasi Kumar
40	rabbanishaik7356@gmail.com	SHAIK RABBANI
42	thiriveedhinagajyothi@gmail.com	T. Nagajyothi
43	paladugudurgal@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
48	sriharshanallabothu@gmail.com	Nallabothu. Sri Harsha
49	bhuvanstarpuli@gmail.com	Puli bhuvaneswar
41	reshmayalamanchi@gmail.com	Reshma yalamanchi
27	ravuakshaya@gmail.com	Ravu.akshaya
25	shiakmobin2002@gmail.com	Shaikmobin
24	thammisettysrikanthraj9@gmail.com	T.Srikanth
4	sivajibejjanki@gmail.com	B.sivaji
5	ramyayalabolul23r@gmail.com	Y.Ramya
6	charithareddy3914@gmail.com	P.charitha reddy
7	gayathripolepalli70@gmail.com	POLEPALLI. GAYATHRI
9	sowjanyaathota11@gmail.com	T.SOWJANYA
10	tammasahithil@gmail.com	Tamma Sahithi
11	podilisarayu6@gmail.com	PODILI LAKSHMISARAYU
12	shaikkarishma811@gmail.com	shaik karishma
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V
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	anushayalabolul2@gmail.com	Anusha yalabolu
23	madhulathasure9@gmail.com	SURE. MADHULATHA
50	arundathi0508@gmail.com	PANDA UMA ARUNDATHI
51	chinnivignesh144@gmail.com	chinni vignesh teja yadav

	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE \
0	21KP1A44C5	Venna Ramanareddy	Venna Lakshmidevi	DS
30	21KP1A44A0	Shaik.mahaboobjani	Shaik.munni	DS
31	22KP5A4401	A.Subramanyam	A.Dhana Bhagyam	DS
32	21KP1A4476	Appa rao Patcha	Renuka Patcha	DS
33	21KP1A4490	Mohan krishna	Usha rani	DS
35	21KP1A44B2	T sathyanarayana	T rama devi	DS
36	21KP1A4487	Rayapati hanumathrao	Rayapati malleswari	DS
38	21KP1A44A6	Syed.Meera Sharif	Bandi.Krishna veni	DS
29	21KP1A44D0	Y Rama mohanarao	Y Lalitha	DS
40	21KP1A4499	SHAIK MOHAMMAD HANIF	SHAIK MALIN	DS
42	21KP1A44B7	T. Venkayya	T. Ramanjamma	DS
43	21KP1A4473	P. Amareswara rao	P. Seshu Kumari	DS
44	21KP1A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANBI	DS
45	21KP1A4489	Yedukondalu	Nirmala	DS

46	21KP1A4471	Narra SrinivasaRao	Narra Ramadevi	DS
48	21KP1A4469	Nallabothu. Anjaneyulu	Nallabothu. Anitha	DS
49	21KP1A4484	Puli mallikarjuna	Puli ramadevi	DS
41	21KP1A44C9	Yalamanchi subba Rao	Yalamanchi sunitha	DS
27	21KP1A4485	Ravu.srinivasrao	Ravu.aruna kumari	DS
25	21KP1A4497	shaik karimullah	Shaik rihana	DS
24	21KP1A44B5	T.vasu	T.jaya	DS
4	22kp5a4402	B.lakshmaiah	B.veramma	DS
5	21KP1A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS
6	21KP1A4475	P.Madhava Reddy	P.Kavitha	DS
7	21KP1A4481	POLEPALLI. GURUBRAHMA CHARI	POLEPALLI.SRIDEVI	DS
9	21KP1A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS
10	21KP1A44B0	Tamma krishna reddy	Tamma Padmavathi	DS
11	21KP1A4480	PODILI RAMESH	PODILI ADILAKSHMI	DS
12	21KP1A4496	SHAIK BAJI	SHAIK KHADRUN	DS
13	21KP1A44C0	Veeraswamy.v	Lakshmi.v	DS
16	21KP1A44C3	Srinivasa reddy	Jyothi	DS
17	21KP1A44A3	Shaik Rahim babu	Shaik Raziya	DS
18	21KP1A4492	S sk mastan vali	Mahabobba	DS
19	21KP1A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS
20	21KP1A44B9	Undela Chinna Obula Reddy	Undela GuruLakshmi	DS
21	21KP1A44A7	SYED.BAJI	SYED.SARTHAJ BEGUM	DS
22	21KP1A44C7	Chinna anjayya	Lakshmi narayanama	DS
23	21KP1A44A4	SURE.VISWANADHAM	SURE.SAI LAKSHMI	DS
50	21KP1A4474	PANDA NARAYANA RAO	PANDA PRASANNA LAKSHMI	DS
51	21KP1A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS

	CGPA	AGE	BRANCH \
0	8.000000e+00	19	Data science
30	8.000000e+00	18	Data science
31	5.467866e+11	19	Data science
32	7.500000e-01	18	Data Science
33	7.000000e+01	19	Ds
35	9.600000e+00	19	Data Science
36	8.000000e+01	19	Ds
38	9.000000e+01	20	DS
29	9.200000e+00	20	Data Science
40	9.500000e+00	21	CSD
42	5.467866e+11	19	DS
43	8.000000e+01	20	CSD(Data Science)
44	8.000000e+01	20	DATASCIENCE
45	7.000000e+00	20	Data science
46	7.500000e+00	19	CSD (Data science)
48	9.000000e+01	21	CSD
49	8.300000e+00	21	Data science
41	5.467866e+11	19	DS
27	8.000000e+01	19	Ds
25	8.800000e+00	21	Ds
24	7.500000e-01	19	Data Science
4	7.200000e-01	23	Computer science
5	8.000000e+01	19	CSD
6	7.000000e+01	19	CSD
7	1.000000e+01	19	Data Science
9	8.000000e+00	19	DATA SCIENCE
10	7.700000e+00	19	CSE (Data science)
11	7.500000e+00	19	DATA SCIENCE

12	9.000000e+00	19	ds
13	9.800000e-01	20	Data Science
16	7.000000e+00	19	Data science
17	8.000000e+01	20	DS
18	5.000000e+01	19	DS
19	7.300000e+01	20	Computer Science Engineering& Data Science
20	9.200000e+00	20	Computer Science
21	7.000000e-01	19	DS
22	5.467866e+11	19	CSD
23	1.000000e+01	20	Data science
50	8.700000e+01	19	CSD
51	8.000000e+01	19	Data Science

	CURRENT SEMISTER	AADHAAR NO
0	2-2	636336922883
30	2-2	406976169351
31	2-2	574930568520
32	2-2	573041880949
33	2-2	274736890047
35	2-2	357228202835
36	2-2	963360828294
38	2-2	347853509974
29	2-2	448172496292
40	2-2	205933956204
42	4	330477145525
43	2-2	692162661608
44	2-2	466722650274
45	2-2	2387 7088 9424
46	4	835457902826
48	2-2	208611060176
49	2.2	950519207474
41	4	742366316353
27	2.2	544305783128
25	2.2	904355656468
24	2-2	673112205183
4	2-2	895444662410
5	2-2	724574588425
6	2.2	810177524502
7	2-2	721819168061
9	2-2	338666948901
10	2-2	685349832128
11	2-2	458689741091
12	2-2	663048521599
13	2-2	510305345824
16	2-2	424973081348
17	2-2	529261464345
18	2-2	568753875709
19	4	546786556789
20	2-2	693621780842
21	2-2	764320730678
22	2-2	830785066037
23	2-2	776486062608
50	2-2	652650486629
51	4th semester	639534870436

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE
0	vennachandana1@gmail.com	Venna Chandana	21KP1A44C5	Venna Ramanareddy	Venna Lakshmi devi
1	adilakshmi4765@gmail.com	N.Venkatesh	21KP1A4468	N.Manikya Rao	N.Sri Lakshmi
2	sravankumar7156@gmail.com	Sravan Kumar	21KP1A4488	Rama Chandra Rao	Venkateswaramma
3	sandeepyeruva1124@gmail.com	Yeruva sandeep reddy	21KP1A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi
4	sivajibejjanki@gmail.com	B.sivaji	22kp5a4402	B.lakshmaiah	B.veramma
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1A44C8	Y.Anjaiah	Y Lakshmi Rajyam
6	charithareddy3914@gmail.com	P.charitha reddy	21KP1A4475	P.Madhava Reddy	P.Kavitha
7	gayathri polepalli70@gmail.com	POLEPALLI. GAYATHRI	21KP1A4481	POLEPALLI. GURUBRAHMA CHARI	POLEPALLI.SRIDEVI
8	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1A44A9	Syed Rahiman	Syed Naseema
9	sowjanya11@gmail.com	T.SOWJANYA	21KP1A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI
10	tammasahithi1@gmail.com	Tamma Sahithi	21KP1A44B0	Tamma krishna reddy	Tamma Padmavathi
11	podilisarayu6@gmail.com	PODILI LAKSHMISARAYU	21KP1A4480	PODILI RAMESH	PODILI ADILAKSHMI
12	shaikkarishma811@gmail.com	shaik karishma	21KP1A4496	SHAIK BAJI	SHAIK KHADRUN
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1A44C0	Veeraswamy.v	Lakshmi.v
14	patchachinnu3@gmail.com	Patcha Jaswanth	21KP1A4477	Patcha apparao	Patcha sukanya
15	manu952041@gmail.com	Pachipulusu Manohar	21KP1A4472	Pachipulusu Prasad	Pachipulusu Bhayani
16	vanukuri.raghava@gmail.com	Raghava	21KP1A44C3	Srinivasa reddy	Jyothi
17	shaiksakina05@gmail.com	Shaik sameer	21KP1A44A3	Shaik Rahim babu	Shaik Raziya
18	us465249@gmail.com	S sk usman	21KP1A4492	S sk mastan vali	Mahabobba
19	vallu.srinu756939@gmail.com	Vallu Srinu Siva Subrahmanyam	21KP1A44C1	Vallu Srinivasa Rao	Vallu Surya kumari
20	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy	21KP1A44B9	Undela Chinna Obula Reddy	Undela GuruLakshmi
21	farukh.786syed@gmail.com	SYED.FARUKH	21KP1A44A7	SYED.BAJI	SYED.SARTHAJ BEGUM

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE
22	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1A44C7	Chinna anjayya	Lakshmi narayanama
23	madhulathasure9@gmail.com	SURE. MADHULATHA	21KP1A44A4	SURE.VISWANADHAM	SURE.SAI LAKSHMI
24	thammisettysrikanthraj9@gmail.com	T.Srikanth	21KP1A44B5	T.vasu	T.jaya
25	shiakmobin2002@gmail.com	Shaikmobin	21KP1A4497	shaik karimullah	Shaik rihana
26	abdulkhadar6842@gmail.com	Shaik.Abdul Khadar	21KP1A4493	Shaik.Kareem	Shaik.Farjana
27	ravuakshaya@gmail.com	Ravu.akshaya	21KP1A4485	Ravu.srinivasrao	Ravu.aruna kumari
28	hemasanjushasanikommu828@gmail.com	hema sanjusha	21KP1A4491	musalareddy	sivaparvathi
29	ynagasaki-kumar@gmail.com	Y Naga Sasi Kumar	21KP1A44D0	Y Rama mohanarao	Y Lalitha
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtunnisa	21KP1A44A0	Shaik.mahaboobjani	Shaik.munni
31	harikabangaram313@gmail.com	Harika	22KP5A4401	A.Subramanyam	A.Dhana Bhagyam
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A4476	Appa rao Patcha	Renuka Patcha
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1A4490	Mohan krishna	Usha rani
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1A44B2	T sathyanarayana	T rama devi
36	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1A4487	Rayapati hanumathrao	Rayapati malleswari
37	indhupotla123@gmail.com	indhu priya	21KP1A4483	Lakshmanarayana	Sujatha
38	abdulabdul22070@gmail.com	Syed.Abdul Rehaman	21KP1A44A6	Syed.Meera Sharif	Bandi.Krishna veni
39	jaffershaik718@gmail.com	Jaffer shaik	21KP1A4495	shaik.LaiLaha	shaik.Ramjan bee
40	rabbanishaik7356@gmail.com	SHAIK RABBANI	21KP1A4499	SHAIK MOHAMMAD HANIF	SHAIK MALIN
41	reshmayalamanchi@gmail.com	Reshma yalamanchi	21KP1A44C9	Yalamanchi subba Rao	Yalamanchi sunitha
42	thiriveedhinagajyothis@gmail.com	T. Nagajyothis	21KP1A44B7	T. Venkayya	T. Ramanjamma
43	paladugudurga1@gmail.com	P. Durga Sri	21KP1A4473	P. Amareswara rao	P. Seshu Kumari
44	saidashaik371@gmail.com	SHAIK SAIDA ANWAR BASHA	21KP1A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANBI
45	mvkbn1312@gmail.com	R.M.V.K.Brahma Naidu	21KP1A4489	Yedukondalu	Nirmala

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46	nrajasambasivarao@gmail.com	Narra Raja Samba Siva Rao	21KP1A4471	Narra SrinivasaRao	Narra Ramadevi
47	saisairam068@gmail.com	Sairam	21kp1a44b4	Venkata subbiah	Ravanamma
48	sriharshanallabothu@gmail.com	Nallabothu. Sri Harsha	21KP1A4469	Nallabothu. Anjaneyulu	Nallabothu. Anitha
49	bhuvanstarpuli@gmail.com	Puli bhuvaneswar	21KP1A4484	Puli mallikarjuna	Puli ramadevi
50	arundathi0508@gmail.com	PANDA UMA ARUNDATHI	21KP1A4474	PANDA NARAYANA RAO	PANDA PRASANNA LAKSHMI
51	chinnivignesh144@gmail.com	chinni vignesh teja yadav	21KP1A44C6	Chinni Pratap Kumar	Chinni Bhargavi

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

OUTPUT :

Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO
0	vennachandana1@gmail.com	Venna Chandana	21KP1 A44C5	Venna Ramanareddy	Venna Lakshmidevi	DS	8.0000 00e+00	19	Data science	2-2 636336 922883
1	adilakshmi4765@gmail.com	N.Venkatesh	21KP1 A4468	N.Manikya Rao	N.Sri Lakshmi	CS E	8.3000 00e+01	19	CSE-DS	II-II 602515 258256
2	sravankumar7156@gmail.com	Sravan Kumar	21KP1 A4488	Rama Chandra Rao	Venkateswaramma	ME CH	7.0000 00e+00	20	mech	4 930319 053088
3	sandeepyeruval124@gmail.com	Yeruva sandeep reddy	21KP1 A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CS E	9.5000 00e+00	20	CSE	2-3 576154 990146
4	sivajibejjanki@gmail.com	B.sivaji	22kp5a 4402	B.lakshmaiah	B.veramma	DS	7.2000 00e-01	23	Computer science	2-2 895444 662410
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1 A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	8.0000 00e+01	19	CSD	2-2 724574 588425
6	charithareddy3914@gmail.com	P.charitha reddy	21KP1 A4475	P.Madhava Reddy	P.Kavitha	DS	7.0000 00e+01	19	CSD	2.2 810177 524502
7	gayathripolepalli70@gmail.com	POLEPAL LI. GAYATH RI	21KP1 A4481	POLEPALLI. GURUBRAH MA CHARI	POLEPALL I.SRIDEVI	DS	1.0000 00e+01	19	Data Science	2-2 721819 168061

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO	
8	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1 A44A9	Syed Rahiman	Syed Naseema	ME CH	8.0000 00e+00	19	DS	2-2	617020 354793
9	sowjanya11@gmail.com	T.SOWJA NYA	21KP1 A44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8.0000 00e+00	19	DATA SCIENC E	2-2	338666 948901
10	tammasahithi1@gmail.com	Tamma Sahithi	21KP1 A44B0	Tamma krishna reddy	Tamma Padmavathi	DS	7.7000 00e+00	19	CSE (Data science)	2-2	685349 832128
11	podilisaray6@gmail.com	PODILI LAKSHMI SARAYU	21KP1 A4480	PODILI RAMESH	PODILI ADILAKSH MI	DS	7.5000 00e+00	19	DATA SCIENC E	2-2	458689 741091
12	shaikkarishma811@gmail.com	shaik karishma	21KP1 A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9.0000 00e+00	19	ds	2-2	663048 521599
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1 A44C0	Veeraswamy. v	Lakshmi.v	DS	9.8000 00e-01	20	Data Science	2-2	510305 345824
14	patchachinnu3@gmail.com	Patcha Jaswanth	21KP1 A4477	Patcha apparao	Patcha sukanya	CS E	9.9000 00e-01	20	Data science	2-2	744020 413963
15	manu952041@gmail.com	Pachipulus u Manohar	21KP1 A4472	Pachipulusu Prasad	Pachipulusu Bhavani	ME CH	8.5000 00e+00	19	Data Science	2-2	559366 114423
16	vanukuri.raghava@gmail.com	Raghava	21KP1 A44C3	Srinivasa reddy	Jyothi	DS	7.0000 00e+00	19	Data science	2-2	424973 081348
17	shaiksakina05@gmail.com	Shaik sameer	21KP1 A44A3	Shaik Rahim babu	Shaik Raziya	DS	8.0000 00e+01	20	DS	2-2	529261 464345
18	us465249@gmail.com	S sk usman	21KP1 A4492	S sk mastan vali	Mahabobba	DS	5.0000 00e+01	19	DS	2-2	568753 875709
19	vallu.srinu756939@gmail.com	Vallu Srinu Siva Subrahman yam	21KP1 A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	7.3000 00e+01	20	Compute r Science Engineer ing& Data Science	4	546786 556789
20	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy	21KP1 A44B9	Undela Chinna Obula Reddy	Undela GuruLaksh mi	DS	9.2000 00e+00	20	Compute r Science	2-2	693621 780842
21	farukh.786syed@gmail.com	SYED.FA RUKH	21KP1 A44A7	SYED.BAJI	SYED.SAR THAJ BEGUM	DS	7.0000 00e-01	19	DS	2-2	764320 730678
22	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1 A44C7	Chinna anjayya	Lakshmi narayanama	DS	5.4678 66e+11	19	CSD	2-2	830785 066037

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO	
23	madhulathasure9@gmail.com	SURE. MADHUL ATHA	21KP1 A44A4	SURE.VISW ANADHAM	SURE.SAI LAKSHMI	DS	1.0000 00e+01	20	Data science	2-2	776486 062608
24	thammisettsrikanthraj9@gmail.com	T.Srikanth	21KP1 A44B5	T.vasu	T.jaya	DS	7.5000 00e-01	19	Data Science	2-2	673112 205183
25	shiakmobin2002@gmail.com	Shaikmobi n	21KP1 A4497	shaik karimullah	Shaik rihana	DS	8.8000 00e+00	21	Ds	2.2	904355 656468
26	abdulkhadar6842@gmail.com	Shaik.Abd ul Khadar	21KP1 A4493	Shaik.Karee m	Shaik.Farjan a	EC E	8.0000 00e+00	20	Data Science	2-2	334708 289154
27	ravuakshaya@gmail.com	Ravu.aksha ya	21KP1 A4485	Ravu.srinivas rao	Ravu.aruna kumari	DS	8.0000 00e+01	19	Ds	2.2	544305 783128
28	hemasanjushasanikommu828@gmail.com	hema sanjusha	21KP1 A4491	musalareddy	sivaparvathi	CS E	7.3000 00e+01	18	cse	2-2	422314 863763
29	ynagasasikumar@gmail.com	Y Naga Sasi Kumar	21KP1 A44D0	Y Rama mohanarao	Y Lalitha	DS	9.2000 00e+00	20	Data Science	2-2	448172 496292
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtunn isa	21KP1 A44A0	Shaik.mahab oobjani	Shaik.munni	DS	8.0000 00e+00	18	Data science	2-2	406976 169351
31	harikabangaram313@gmail.com	Harika	22KP5 A4401	A.Subramany am	A.Dhana Bhagyam	DS	5.4678 66e+11	19	Data science	2-2	574930 568520
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1 A4476	Appa rao Patcha	Renuka Patcha	DS	7.5000 00e-01	18	Data Science	2-2	573041 880949
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1 A4490	Mohan krishna	Usha rani	DS	7.0000 00e+01	19	Ds	2-2	274736 890047
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1 A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CS E	7.0000 00e+01	19	Cse- Data Science	2_2	587480 445790
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1 A44B2	T sathyanaraya na	T rama devi	DS	9.6000 00e+00	19	Data Science	2-2	357228 202835
36	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1 A4487	Rayapati hanumathrao	Rayapati malleswari	DS	8.0000 00e+01	19	Ds	2-2	963360 828294
37	indhupotla123@gmail.com	indhu priya	21KP1 A4483	Lakshmanara yana	Sujatha	CS E	7.2000 00e+01	19	cse	2-2	524345 891620
38	abdulabdul22070@gmail.com	Syed.Abdu l Rehaman	21KP1 A44A6	Syed.Meera Sharif	Bandi.Krish na veni	DS	9.0000 00e+01	20	DS	2-2	347853 509974
39	jaffershaik718@gmail.com	Jaffer shaik	21KP1 A4495	shaik.LaiLah a	shaik.Ramja n bee	CS E	7.0000 00e+01	19	cse	2nd	912229 276699

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRA NCH	CURRE NT SEMIS TER	AAD HAA R NO	
40	rabbanishaik7356@gmail.com	SHAIK RABBANI	21KP1 A4499	SHAIK MOHAMMA D HANIF	SHAIK MALIN	DS	9.5000 00e+00	21	CSD	2-2	205933 956204
41	reshmayalamanchi@gmail.com	Reshma yalamanchi	21KP1 A44C9	Yalamanchi subba Rao	Yalamanchi sunitha	DS	5.4678 66e+11	19	DS	4	742366 316353
42	thiriveedhinagajyothis@gmail.com	T. Nagajyothis	21KP1 A44B7	T. Venkayya	T. Ramanjamma	DS	5.4678 66e+11	19	DS	4	330477 145525
43	paladugudurga1@gmail.com	P. Durga Sri	21KP1 A4473	P. Amareswara rao	P. Seshu Kumari	DS	8.0000 00e+01	20	CSD(Data Science)	2-2	692162 661608
44	saidashaik371@gmail.com	SHAIK SAIDA ANWAR BASHA	21KP1 A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANBI	DS	8.0000 00e+01	20	DATAS CIENCE	2-2	466722 650274
45	mvkbn1312@gmail.com	R.M.V.K. Brahma Naidu	21KP1 A4489	Yedukondalu	Nirmala	DS	7.0000 00e+00	20	Data science	2-2	2387 7088 9424
46	nrajasambasivarao@gmail.com	Narra Raja Samba Siva Rao	21KP1 A4471	Narra SrinivasaRao	Narra Ramadevi	DS	7.5000 00e+00	19	CSD (Data science)	4	835457 902826
47	saisairam068@gmail.com	Sairam	21kp1a 44b4	Venkata subbiah	Ravanamma	CS E	1.0000 00e+01	19	Da	2-2	746109 575146
48	sriharshanallabothu@gmail.com	Nallabothu Sri Harsha	21KP1 A4469	Nallabothu. Anjaneyulu	Nallabothu. Anitha	DS	9.0000 00e+01	21	CSD	2-2	208611 060176
49	bhuvanstarpuli@gmail.com	Puli bhuvanesw ar	21KP1 A4484	Puli mallikarjuna	Puli ramadevi	DS	8.3000 00e+00	21	Data science	2.2	950519 207474
50	arundathi0508@gmail.com	PANDA UMA ARUNDA THI	21KP1 A4474	PANDA NARAYAN A RAO	PANDA PRASANN A LAKSHMI	DS	8.7000 00e+01	19	CSD	2-2	652650 486629
51	chinnivignesh144@gmail.com	chinni vignesh teja yadav	21KP1 A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	8.0000 00e+01	19	Data Science	4th semest er	639534 870436

In [54]:

```
df2=df.groupby('AGE').get_group(18)
df2
```

Out[54]:

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHE R NAME	COURSE	CG PA	AGE	BRA NCH	CURR ENT SEMI STER	AADH AAR NO	
0	vennachandana1@gmail.com	Venna Chandana	21KP1 A44C5	Venna Ramanare ddy	Venna Lakshmi devi	DS	8.00000 0e+00	19	Data science	2-2	6363369 22883
1	adilakshmi4765@gmail.com	N.Venkates h	21KP1 A4468	N.Maniky a Rao	N.Sri Lakshmi	CS E	8.30000 0e+01	19	CSE- DS	II-II	6025152 58256
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1 A44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	8.00000 0e+01	19	CSD	2-2	7245745 88425
6	charithareddy3914@gmail.com	P.charitha reddy	21KP1 A4475	P.Madhav a Reddy	P.Kavitha	DS	7.00000 0e+01	19	CSD	2.2	8101775 24502
7	gayathriplepalli70@gmail.com	POLEPALL I. GAYATHR I	21KP1 A4481	POLEPA LLI. GURUBR AHMA CHARI	POLEPALLI. SRIDEVI	DS	1.00000 0e+01	19	Data Scienc e	2-2	7218191 68061
8	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1 A44A9	Syed Rahiman	Syed Naseema	ME CH	8.00000 0e+00	19	DS	2-2	6170203 54793
9	sowjanyaatha11@gmail.com	T.SOWJAN YA	21KP1 A44B6	T.SAMB A SIVA RAO	T.ARUNA KUMARI	DS	8.00000 0e+00	19	DATA SCIEN CE	2-2	3386669 48901
10	tammasahithi1@gmail.com	Tamma Sahithi	21KP1 A44B0	Tamma krishna reddy	Tamma Padmavathi	DS	7.70000 0e+00	19	CSE (Data science)	2-2	6853498 32128
11	podilisarayu6@gmail.com	PODILI LAKSHMI SARAYU	21KP1 A4480	PODILI RAMESH	PODILI ADILAKSH MI	DS	7.50000 0e+00	19	DATA SCIEN CE	2-2	4586897 41091
12	shaikkarishma811@gmail.com	shaik karishma	21KP1 A4496	SHAIK BAJI	SHAIK KHADRUN	DS	9.00000 0e+00	19	ds	2-2	6630485 21599
15	manu952041@gmail.com	Pachipulusu Manohar	21KP1 A4472	Pachipulu su Prasad	Pachipulusu Bhavani	ME CH	8.50000 0e+00	19	Data Scienc e	2-2	5593661 14423
16	vanukuri.raghava@gmail.com	Raghava	21KP1 A44C3	Srinivasa reddy	Jyothi	DS	7.00000 0e+00	19	Data science	2-2	4249730 81348
18	us465249@gmail.com	S sk usman	21KP1 A4492	S sk mastan vali	Mahabobba	DS	5.00000 0e+01	19	DS	2-2	5687538 75709
21	farukh.786syed@gmail.com	SYED.FAR UKH	21KP1 A44A7	SYED.BA JI	SYED.SART HAJ BEGUM	DS	7.00000 0e-01	19	DS	2-2	7643207 30678
22	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1 A44C7	Chinna anjayya	Lakshmi narayanama	DS	5.46786 6e+11	19	CSD	2-2	8307850 66037

G ma il	STUDENT NAME	ROLL NUMBER	FATH ER NAME	MOTHE R NAME	COURSE	CG PA	AGE	BRA NCH	CURR ENT SEMI STER	AADH AAR NO	
24	thammisetysrikanth aj9@gmail.com	T.Srikanth	21KP1 A44B5	T.vasu	T.jaya	DS	7.50000 0e-01	19	Data Scienc e	2-2	6731122 05183
27	ravuakshaya@gmail. com	Ravu.aksha ya	21KP1 A4485	Ravu.srini vasrao	Ravu.aruna kumari	DS	8.00000 0e+01	19	Ds	2.2	5443057 83128
31	harikabangaram313 @gmail.com	Harika	22KP5 A4401	A.Subram anyam	A.Dhana Bhagyam	DS	5.46786 6e+11	19	Data science	2-2	5749305 68520
33	bhavyasrisajja2003@ gmail.com	Bhavya sri	21KP1 A4490	Mohan krishna	Usha rani	DS	7.00000 0e+01	19	Ds	2-2	2747368 90047
34	sudhamshavejendla @gmail.com	Vejendla Devi Sri Sudhamsha	21KP1 A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CS E	7.00000 0e+01	19	Cse- Data Scienc e	2_2	5874804 45790
35	bhanuthanirru@gmai l.com	Thanirru Bhanu venkata prasad	21KP1 A44B2	T sathyanar ayana	T rama devi	DS	9.60000 0e+00	19	Data Scienc e	2-2	3572282 02835
36	nikitharayapati9@gm ail.com	Nikhitha Rayapati	21KP1 A4487	Rayapati hanumath rao	Rayapati malleswari	DS	8.00000 0e+01	19	Ds	2-2	9633608 28294
37	indhupotla123@gmai l.com	indhu priya	21KP1 A4483	Lakshman arayana	Sujatha	CS E	7.20000 0e+01	19	cse	2-2	5243458 91620
39	jaffershaik718@gmai l.com	Jaffer shaik	21KP1 A4495	shaik.Lai Laha	shaik.Ramjan bee	CS E	7.00000 0e+01	19	cse	2nd	9122292 76699
41	reshmayalamanchi@ gmail.com	Reshma yalamanchi	21KP1 A44C9	Yalamanc hi subba Rao	Yalamanchi sunitha	DS	5.46786 6e+11	19	DS	4	7423663 16353
42	thiriveedhinagajyothe @gmail.com	T. Nagajyothe	21KP1 A44B7	T. Venkayya	T. Ramanjamma	DS	5.46786 6e+11	19	DS	4	3304771 45525
46	nrajasambasivarao@ gmail.com	Narra Raja Samba Siva Rao	21KP1 A4471	Narra Srinivasa Rao	Narra Ramadevi	DS	7.50000 0e+00	19	CSD (Data science)	4	8354579 02826
47	saisairam068@gmail. com	Sairam	21kp1a 44b4	Venkata subbiah	Ravanamma	CS E	1.00000 0e+01	19	Da	2-2	7461095 75146
50	arundathi0508@gmai l.com	PANDA UMA ARUNDAT HI	21KP1 A4474	PANDA NARAY ANA RAO	PANDA PRASANNA LAKSHMI	DS	8.70000 0e+01	19	CSD	2-2	6526504 86629
51	chinnivignesh144@g mail.com	chinni vignesh teja yadav	21KP1 A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	8.00000 0e+01	19	Data Scienc e	4th semest er	6395348 70436

In [55]:

df4=df.groupby('AGE').get_group(20)

df4

OUTPUT :

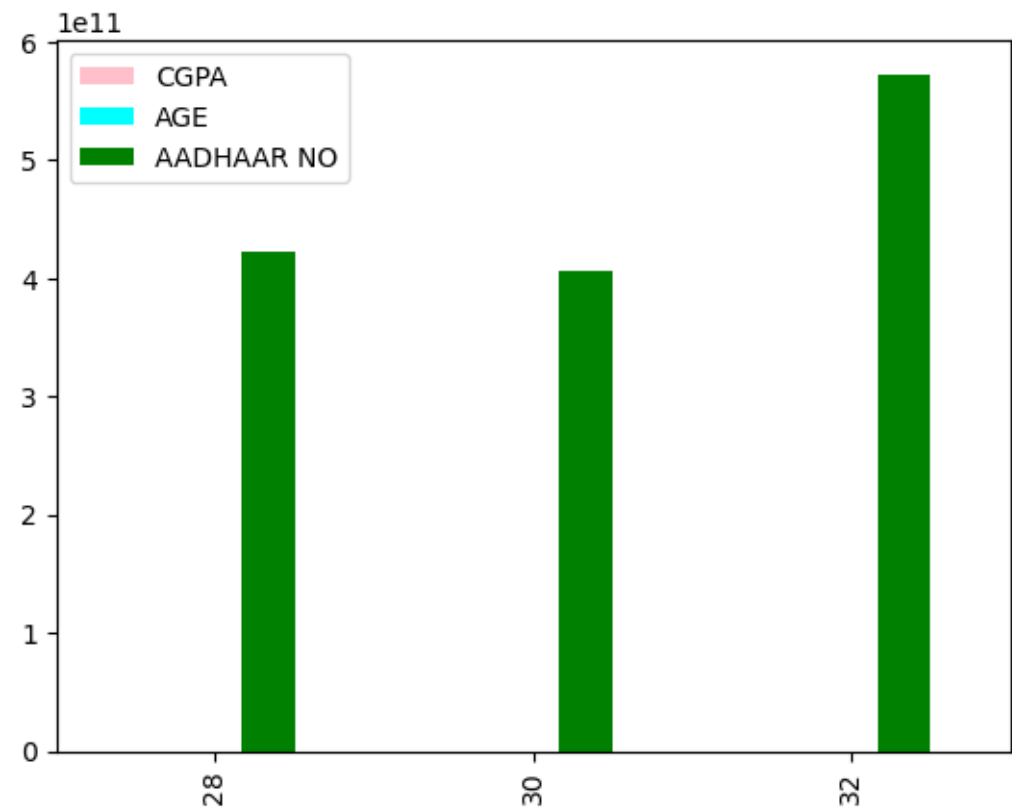
	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRANCH	CURRENT SEMESTER	AADH AAR NO
2	sravankumar7156@gmail.com	Sravan Kumar	21KP1A4488	Rama Chandra Rao	Venkateswaramamma	MECH	7.00	20	mech	4	930319053088
3	sandeepyeruva1124@gmail.com	Yeruva sandeep reddy	21KP1A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CSE	9.50	20	CSE	2-3	576154990146
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1A44C0	Veeraswamy.v	Lakshmi.v	DS	0.98	20	Data Science	2-2	510305345824
14	patchachinnu3@gmail.com	Patcha Jaswanth	21KP1A4477	Patcha apparao	Patcha sukanya	CSE	0.99	20	Data science	2-2	744020413963
17	shaiksakina05@gmail.com	Shaik sameer	21KP1A44A3	Shaik Rahim babu	Shaik Raziya	DS	80.00	20	DS	2-2	529261464345
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	546786556789
20	undelachandraobularedy@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.SAILAKSHMI	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.Abdu l 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. Amareswararao	P. Seshu Kumari	DS	80.00	20	CSD(Data Science)	2-2	692162661608
44	saidashaik371@gmail.com	SHAIK SAIDANWAR BASHA	21KP1A44A2	SHAIK KUDHANVALI	SHAIK SAIDAHUSSANBI	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			

```
df2.plot.bar(color=['pink','aqua','green'])
df2
```

OUTPUT:

Gm ail	STUDENT NAME	ROLL NUMBE R	FATHE R NAME	MOTHER NAME	COUR SE	CG PA	A GE	BRA NCH	CURR ENT SEMIS TER	AADH AAR NO	
28	hemasanjushasanikommu828@gmail.com	hema sanjusha	21KP1A 4491	musalareddy	sivapar vathi	CSE	73. 00	18	cse	2-2	4223148 63763
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtu nnisa	21KP1A 44A0	Shaik.mahab oobjani	Shaik.m unni	DS	8.0 0	18	Data science	2-2	4069761 69351
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A 4476	Appa rao Patcha	Renuka Patcha	DS	0.7 5	18	Data Science	2-2	5730418 80949

Plotting a bar graph:



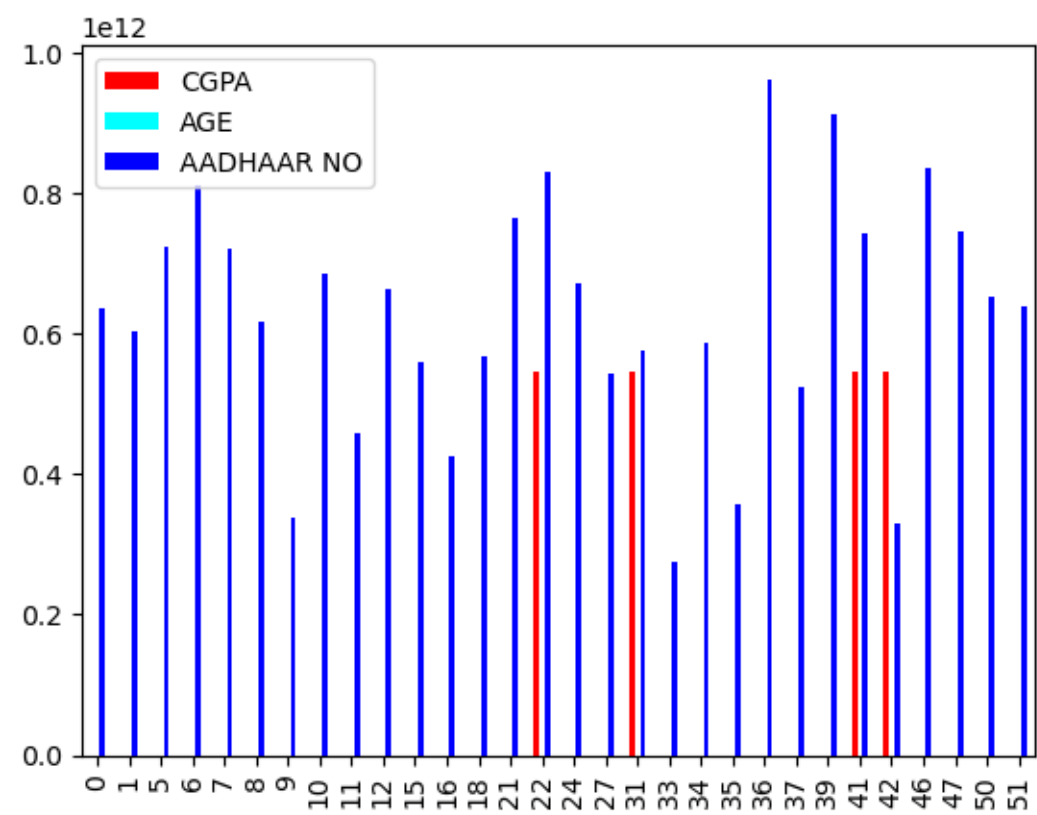
```
In [59]:
df3.plot.bar(color=['red','aqua','blue'])
df3

Out[59]:
```

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRA NCH	CURR ENT SEMIS TER	AADHA AR NO
0	vennachandana1@gmail.com	Venna Chandana	21KP1A 44C5	Venna Ramanareddy	Venna Lakshmidevi	DS	8.00000 0e+00	19	Data scienc e	2-2	6363369 22883
1	adilakshmi4765@gmail.com	N.Venkatesh	21KP1A 4468	N.Maniky a Rao	N.Sri Lakshmi	CSE	8.30000 0e+01	19	CSE- DS	II-II	6025152 58256
5	ramyayalabolu123r@gmail.com	Y.Ramya	21KP1A 44C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	8.00000 0e+01	19	CSD	2-2	7245745 88425
6	charithareddy3914@gmail.com	P.charitha reddy	21KP1A 4475	P.Madhav a Reddy	P.Kavitha	DS	7.00000 0e+01	19	CSD	2.2	8101775 24502
7	gayathripolepalli70@gmail.com	POLEPALL I. GAYATHRI	21KP1A 4481	POLEPAL LI. GURUBR AHMA CHARI	POLEPALLI. SRIDEVI	DS	1.00000 0e+01	19	Data Scien ce	2-2	7218191 68061
8	syedtasleem07@gmail.com	Syed Tasleem Afroze	21KP1A 44A9	Syed Rahiman	Syed Naseema	MEC H	8.00000 0e+00	19	DS	2-2	6170203 54793
9	sowjanyaathota11@gmail.com	T.SOWJAN YA	21KP1A 44B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8.00000 0e+00	19	DAT A SCIE NCE	2-2	3386669 48901
10	tammasahithi1@gmail.com	Tamma Sahithi	21KP1A 44B0	Tamma krishna reddy	Tamma Padmavathi	DS	7.70000 0e+00	19	CSE (Data scienc e)	2-2	6853498 32128
11	podilisarayu6@gmail.com	PODILI LAKSHMIS ARAYU	21KP1A 4480	PODILI RAMESH	PODILI ADILAKSH MI	DS	7.50000 0e+00	19	DAT A SCIE NCE	2-2	4586897 41091
12	shaikkarishma811@gmail.com	shaik karishma	21KP1A 4496	SHAIK BAJI	SHAIK KHADRUN	DS	9.00000 0e+00	19	ds	2-2	6630485 21599
15	manu952041@gmail.com	Pachipulusu Manohar	21KP1A 4472	Pachipulus u Prasad	Pachipulusu Bhavani	MEC H	8.50000 0e+00	19	Data Scien ce	2-2	5593661 14423
16	vanukuri.raghava@gmail.com	Raghava	21KP1A 44C3	Srinivasa reddy	Jyothi	DS	7.00000 0e+00	19	Data scienc e	2-2	4249730 81348
18	us465249@gmail.com	S sk usman	21KP1A 4492	S sk mastan vali	Mahabobba	DS	5.00000 0e+01	19	DS	2-2	5687538 75709
21	farukh.786syed@gmail.com	SYED.FAR UKH	21KP1A 44A7	SYED.BA JI	SYED.SART HAJ BEGUM	DS	7.00000 0e-01	19	DS	2-2	7643207 30678
22	anushayalabolu12@gmail.com	Anusha yalabolu	21KP1A 44C7	Chinna anjayya	Lakshmi narayanama	DS	5.46786 6e+11	19	CSD	2-2	8307850 66037

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGPA	AGE	BRA NCH	CURR ENT SEMIS TER	AADHA AR NO
24	thammisetysrikanthraj9@gmail.com	T.Srikanth	21KP1A44B5	T.vasu	T.jaya	DS	7.500000e-01	19	Data Science	2-2	673112205183
27	ravuakshaya@gmail.com	Ravu.akshaya	21KP1A4485	Ravu.srinivasrao	Ravu.aruna kumari	DS	8.000000e+01	19	Ds	2.2	544305783128
31	harikabangaram313@gmail.com	Harika	22KP5A4401	A.Subramanyam	A.Dhana Bhagyam	DS	5.467866e+11	19	Data science	2-2	574930568520
33	bhavyasrisajja2003@gmail.com	Bhavya sri	21KP1A4490	Mohan krishna	Usha rani	DS	7.000000e+01	19	Ds	2-2	274736890047
34	sudhamshavejendla@gmail.com	Vejendla Devi Sri Sudhamsha	21KP1A44C4	Vejendla Srinivass Rao	Vejendla Laxmi Prasanna	CSE	7.000000e+01	19	Cse-Data Science	2_2	587480445790
35	bhanuthanirru@gmail.com	Thanirru Bhanu venkata prasad	21KP1A44B2	T sathyanarayana	T rama devi	DS	9.600000e+00	19	Data Science	2-2	357228202835
36	nikitharayapati9@gmail.com	Nikhitha Rayapati	21KP1A4487	Rayapati hanumathrao	Rayapati malleswari	DS	8.000000e+01	19	Ds	2-2	963360828294
37	indhupotla123@gmail.com	indhu priya	21KP1A4483	Lakshman arayana	Sujatha	CSE	7.200000e+01	19	cse	2-2	524345891620
39	jaffershaik718@gmail.com	Jaffer shaik	21KP1A4495	shaik.LaiLaha	shaik.Ramjan bee	CSE	7.000000e+01	19	cse	2nd	912229276699
41	reshmayalamanchi@gmail.com	Reshma yalamanchi	21KP1A44C9	Yalamanchi subba Rao	Yalamanchi sunitha	DS	5.467866e+11	19	DS	4	742366316353
42	thiriveedhinagajyothis@gmail.com	T. Nagajyothis	21KP1A44B7	T. Venkayya	T. Ramanjamma	DS	5.467866e+11	19	DS	4	330477145525
46	nrajasambasivarao@gmail.com	Narra Raja Samba Siva Rao	21KP1A4471	Narra Srinivasa Rao	Narra Ramadevi	DS	7.500000e+00	19	CSD (Data science)	4	835457902826
47	saisairam068@gmail.com	Sairam	21kp1a44b4	Venkata subbiah	Ravanamma	CSE	1.000000e+01	19	Da	2-2	746109575146
50	arundathi0508@gmail.com	PANDA UMA ARUNDATHI	21KP1A4474	PANDA NARAYANA RAO	PANDA PRASANNA LAKSHMI	DS	8.700000e+01	19	CSD	2-2	652650486629
51	chinnivignesh144@gmail.com	chinni vignesh teja yadav	21KP1A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	8.000000e+01	19	Data Science	4th semester	639534870436

Plotting a bar graph:



In [63]:

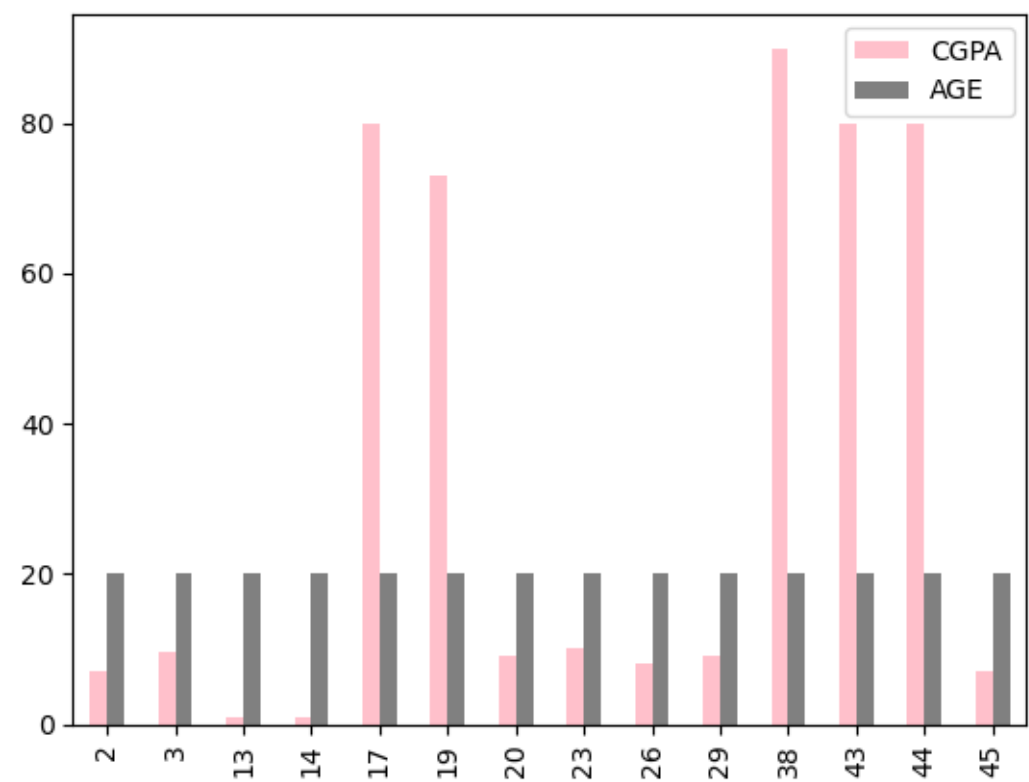
```
df4.plot.bar(color=['pink','grey','yellow'])
df4
```

Out[63]:

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRANCH	CURRENT SEMESTER	AADHAAR NO
2	sravankumar7156@gmail.com	Sravan Kumar	21KP1 A4488	Rama Chandra Rao	Venkateswaramma	MECH	7.00	20	mech	4	930319053088
3	sandeepyeruval1124@gmail.com	Yeruva sandeep reddy	21KP1 A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CSE	9.50	20	CSE	2-3	576154990146
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	21KP1 A44C0	Veeraswamy.v	Lakshmi.v	DS	0.98	20	Data Science	2-2	510305345824
14	patchachinnu3@gmail.com	Patcha Jaswanth	21KP1 A4477	Patcha apparao	Patcha sukanya	CSE	0.99	20	Data science	2-2	744020413963
17	shaiksakina05@gmail.com	Shaik sameer	21KP1 A44A3	Shaik Rahim babu	Shaik Raziya	DS	80.00	20	DS	2-2	529261464345

	Gmail	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CG PA	AGE	BRANCH	CURRENT SEMESTER	AADHAR NO
19	vallu.srinu756939@gmail.com	Vallu Srinu Siva Subrahmanyam	21KP1 A44C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73.00	20	Computer Science Engineering & Data Science	4	546786556789
20	undelachandraobularedy@gmail.com	Undela Chandra Obula Reddy	21KP1 A44B9	Undela Chinna Obula Reddy	Undela GuruLakshmi	DS	9.20	20	Computer Science	2-2	693621780842
23	madhulathasure9@gmail.com	SURE. MADHULATHA	21KP1 A44A4	SURE.VISWA NADHAM	SURE.SAI LAKSHMI	DS	10.00	20	Data science	2-2	776486062608
26	abdulkhadar6842@gmail.com	Shaik.Abdul Khadar	21KP1 A4493	Shaik.Kareem	Shaik.Farjana	ECE	8.00	20	Data Science	2-2	334708289154
29	ynagasasikumar@gmail.com	Y Naga Sasi Kumar	21KP1 A44D0	Y Ramamohanarao	Y Lalitha	DS	9.20	20	Data Science	2-2	448172496292
38	abdulabdul22070@gmail.com	Syed.Abdul Rehaman	21KP1 A44A6	Syed.Meera Sharif	Bandi.Krishna veni	DS	90.00	20	DS	2-2	347853509974
43	paladugudurga1@gmail.com	P. Durga Sri	21KP1 A4473	P. Amareswararao	P. Seshu Kumari	DS	80.00	20	CSD(Data Science)	2-2	692162661608
44	saidashaik371@gmail.com	SHAIK SAIDA ANWAR BASHA	21KP1 A44A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSANBI	DS	80.00	20	DATASCIENCE	2-2	466722650274
45	mvkbn1312@gmail.com	R.M.V.K. Brahma Naidu	21KP1 A4489	Yedukondalu	Nirmala	DS	7.00	20	Data science	2-2	238770889424

Plotting a bar graph:



In [71]:

```
y=df3.CGPA.value_counts()
y
```

Out[71]:

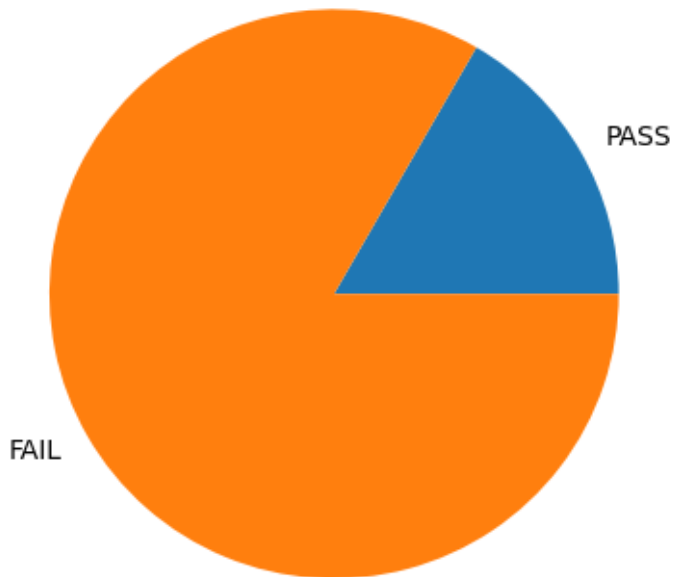
```
8.000000e+01    4
7.000000e+01    4
5.467866e+11    4
8.000000e+00    3
1.000000e+01    2
7.500000e+00    2
7.000000e-01    1
7.200000e+01    1
9.600000e+00    1
7.500000e-01    1
8.500000e+00    1
5.000000e+01    1
7.000000e+00    1
8.300000e+01    1
9.000000e+00    1
7.700000e+00    1
8.700000e+01    1
Name: CGPA, dtype: int64
```

PIE CHARTS :

```
df8=pd.DataFrame({"Result":['PASS','FAIL'], "Vals": [6,30]})
```

```
plt.pie(df8["Vals"],labels=df8["Result"])
plt.show()
```

Plotting a pie chart:



```
df9=df2.CGPA.value_counts()
df9
```

73.00	1
8.00	1
0.75	1

Name: CGPA, dtype: int64

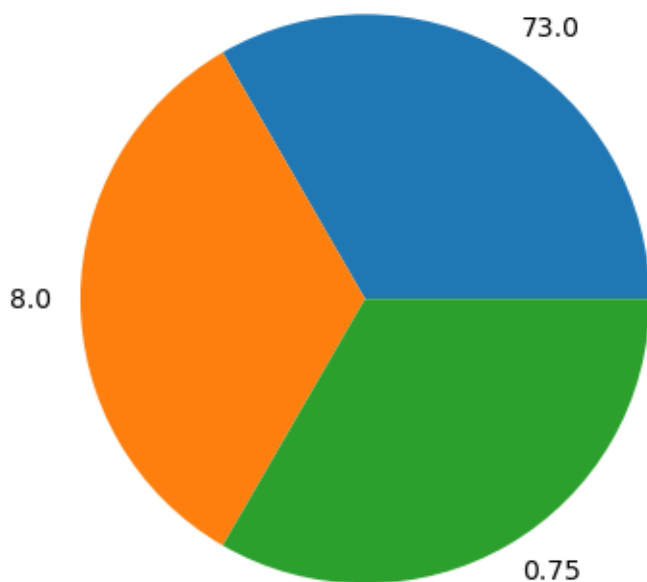
In [73]:

Out[73]:

Plotting a pie chart:

```
e=plt.pie(df9,labels=[73.0,8.0,0.75])
plt.show()
```

In [74]:



```
df10=df.BRANCH.value_counts()
v=df10[1:5]
v
```

Data science	6
CSD	6
Data Science	6
Ds	4

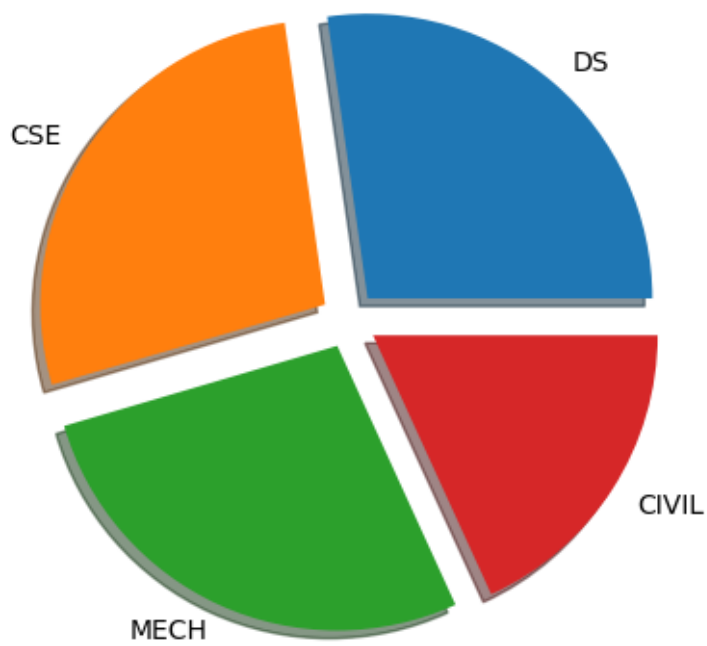
Name: BRANCH, dtype: int64

In [75]:

Out[75]:

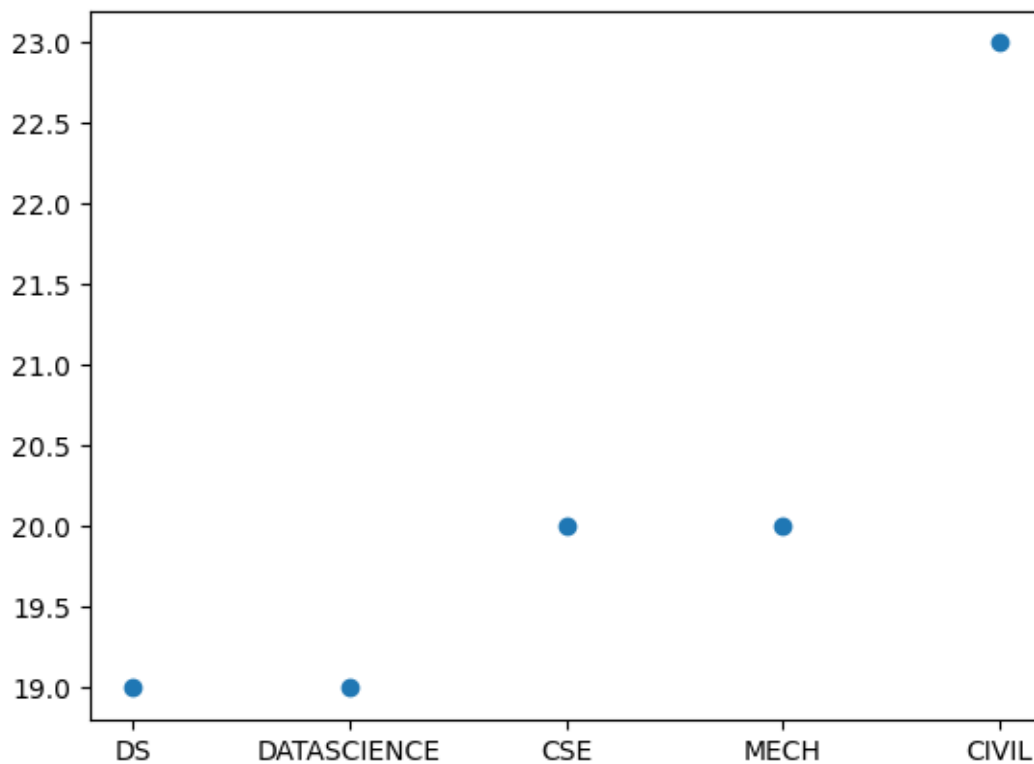
Plotting a pie chart:

```
t=plt.pie(v,labels=['DS','CSE','MECH','CIVIL'],explode=[0.1,0.1,0.1,0.1],shadow=True)
plt.show()
```



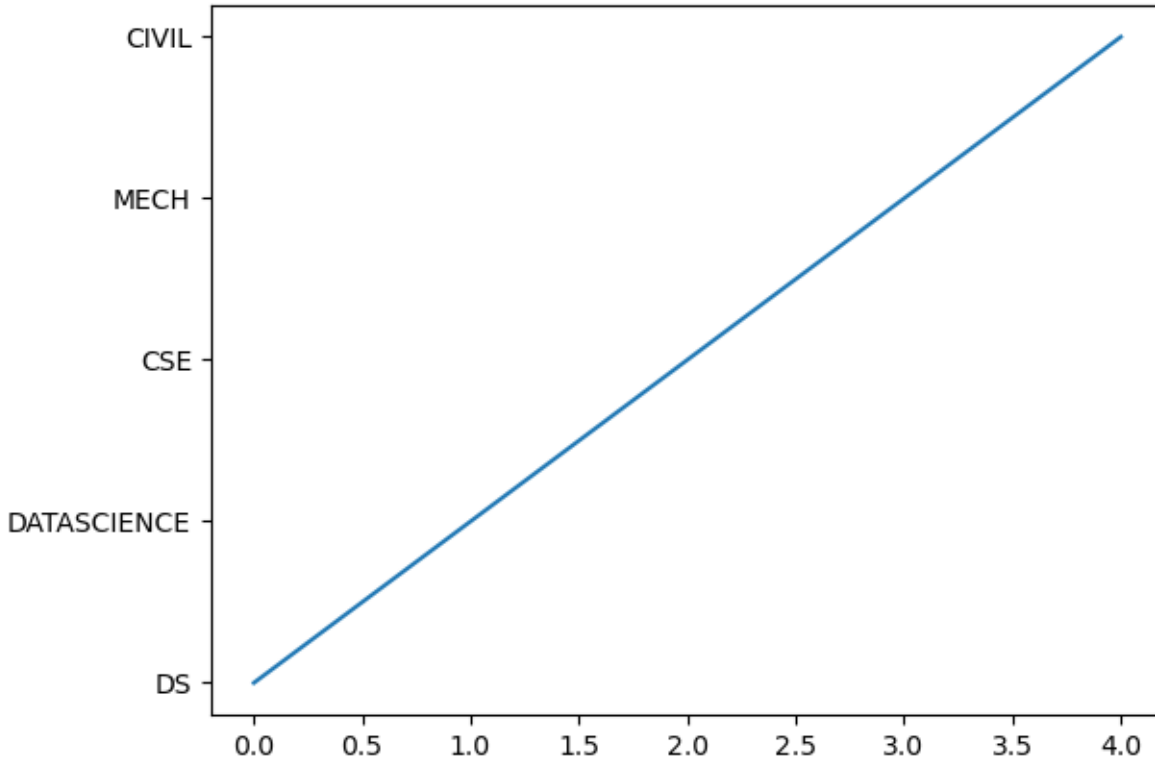
Plotting a scatter graph :

```
BRANCH=['DS','DATASCIENCE','CSE','MECH','CIVIL']  
#AGE=[18,19,20,23]  
t1=df.AGE.head()  
plt.scatter(BRANCH,t1)  
plt.show()
```



Plotting a line graph:

```
BRANCH=['DS','DATASCIENCE','CSE','MECH','CIVIL']  
plt.plot(BRANCH,linestyle='--')  
plt.show()
```



SUMMARY

In this project, we aimed to develop a DATA ANALYTICS USING PYTHON, with a focus on data techniques which are implemented in Python.

Data Analytics is used in a large data sets to extract the informative data, and analysing the data with plots, graphs and other techniques.

Benefits:

- Improved data techniques, which can lead to understand the data easily.
- Data analytics techniques enable a business to take raw data and uncover patterns to extract valuable insights..
- Enhanced customer trust and satisfaction by reducing fraudulent claims.
- Data-driven decision-making for warranty claim management.

