A PROJECT

On

STUDENT DATABASE ANALYSIS USING PYTHON

BACHELOR OF TECHNOLOGY

By

DEPARTMENT OF DATA SCIENCE

UNDELA CHANDRA OBULA REDDY

21KP1A44B9

Under the esteemed Guidance of

Er. S AKSHAY KUMAR

CS CODENZ



LEARN HERE, LEAD ANYWHERE

CS CODENZ

GUDIVADA – 521 323, ANDHRA PRADESH., INDIA

2022-2023

A PROJECT

On

STUDENT DATABASE ANALYSIS USING PYTHON

BACHELOR OF TECHNOLOGY

By

DEPARTMENT OF DATA SCIENCE

UNDELA CHANDRA OBULA REDDY

21KP1A44B9

Under the esteemed Guidance of

Er. S AKSHAY KUMAR

CS CODENZ



LEARN HERE, LEAD ANYWHERE

CS CODENZ

GUDIVADA – 521 323, ANDHRA PRADESH., INDIA

2022-2023

CS CODENZ



CERTIFICATE

This is to certify that dissertation entitled "STUDENT DATABASE ANALYSIS USING PYTHON" submitted by UNDELA CHANDRA OBULA REDDY(21KP1A44B9) 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. Koteswar Rao, M.Tech

Associative professor & HOD

Data science NRIIT

DECLARATION

I UNDELA CHANDRA OBULA REDDY (21KP1A44B9) 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 |
|------------|-------------------------------|-----------|
| 21KP1A44B9 | UNDELA CHANDRA OBULA REDDY | |
| | | |
| | | |
| | | |
| 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

Table Of Contents

| Abstract | 7 |
|--------------|------|
| Requirements | 8 |
| Description | 8 |
| Coding | 9-65 |
| Result | 66 |
| Output | 67 |
| Summary | 68 |

ABSTRACT

The Primary objective of this " **STUDENT DATABASE ANALYSIS USING PYTHON**" is to fulfill requirements of large data sets into understandable by using some techniques. It includes data of historical warranty claims and real-time monitoring capabilities. The project also focuses on achieving a high level of accuracy in large data sets.

•

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 Colaboratory
- ➤ MICROSOFT WORD
- > JUPYTER NOTEBOOK

FUNCTIONAL REQUIREMENTS

- Calculation
- ➤ Help in manipulating data and easy process.
- > Graphical representation of Datasets
- > Importing pandas, numpy, matplotlib,

DESCRIPTION

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

STEPS OF DATA ANALYSIS

- 1. Data Pre processing
- 2. Dropping a particular row and column
- 3. Using Describe function
- 4. Finding null values and sum of null values
- 5. Shape of data
- 6. Columns of the data
- 7. Renaming of columns
- 8. Filtering data for CGPA
- 9. Replacing the inconsistency values
- 10. Finding CGPA which is greater than 8.0
- 11. Finding CGPA in descending order
- 12. Group by function
- 13. Changing the age which is in float in int
- 14. Using Matplotlib plotting a graph

CODE

1) Import the data:

The first step in this is to collect data from students. We collect the data from our class students and merged that data into a huge amount of data.

2) COLLECTING THE DATA

Pandas - Helps to create a data set 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.

Importing data-

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

OUTPUT:

```
Timestamp
                                  Email address \
                                    vennachandana1@gmail.com
 2023-06-13 14:24:58.772
  2023-06-13 14:25:15.609
                                    adilakshmi4765@gmail.com
  2023-06-13 14:25:50.957
                                   sravankumar7156@gmail.com
                                 sandeepyeruva1124@gmail.com
  2023-06-13 14:26:01.824
                                    sivajibejjanki@gmail.com
  2023-06-13 14:26:13.848
5
  2023-06-13 14:26:23.424
                                 ramyayalabolu123r@gmail.com
  2023-06-13 14:27:05.330
                                 charithareddy3914@gmail.com
                               gayathripolepalli70@gmail.com
  2023-06-13 14:27:16.973
                                    syedtasleem07@gmail.com
  2023-06-13 14:27:41.072
  2023-06-13 14:28:10.012
                                   sowjanyathota11@gmail.com
                                    tammasahithi1@gmail.com
10 2023-06-13 14:28:10.559
11 2023-06-13 14:28:34.026
                                     podilisarayu6@gmail.com
12 2023-06-13 14:28:43.092
                                  shaikkarishma811@gmail.com
                                 kumarvalaparla890@gmail.com
13 2023-06-13 14:28:57.412
14 2023-06-13 14:30:05.091
                                     patchachinnu3@gmail.com
15 2023-06-13 14:30:05.577
                                       manu952041@gmail.com
                                  vanukuri.raghava@gmail.com
16 2023-06-13 14:30:07.913
17 2023-06-13 14:30:57.744
                                     shaiksakina05@gmail.com
18 2023-06-13 14:33:16.842
                                         us465249@gmail.com
                                 vallu.srinu756939@gmail.com
19 2023-06-13 14:36:46.844
20 2023-06-13 14:34:05.142
                            undelachandraobulareddy@gmail.com
                                    farukh.786syed@gmail.com
21 2023-06-13 14:32:17.269
22 2023-06-13 14:33:08.038
                                  anushayalabolu12@gmail.com
                                   madhulathasure9@gmail.com
23 2023-06-13 14:33:16.147
24 2023-06-13 14:34:00.504
                            thammisettysrikanthraj9@gmail.com
                                    shiakmobin2002@gmail.com
25 2023-06-13 14:34:24.599
                                   abdulkhadar6842@gmail.com
26 2023-06-13 14:34:24.985
27 2023-06-13 14:34:31.602
                                      ravuakshaya@gmail.com
28 2023-06-13 14:34:41.989
                           hemasanjushasanikommu828@gmail.com
                                    ynagasasikumar@gmail.com
29 2023-06-13 14:34:52.277
30 2023-06-13 14:35:26.194
                               rahamtunnisashaik09@gmail.com
              MOTHER NAME COURSE CGPA AGE \
0
         Venna Lakshmidevi
                                DS
                                       8
                                          19
1
             N.Sri Lakshmi
                              CSE
                                     83
                                          19
2
                                             20
                              MECH
                                         7
           Venkateswaramma
3
         Yeruva Anjali Devi
                              CSE
                                    9.5
                                          20
```

___1

```
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
                                         19
9
           T.ARUNA KUMARI
                                 DS
                                        8
                                           19
10
          Tamma Padmavathi
                              DS
                                   7.7
                                        19
                          EMAIL \
          vennachandana1@gmail.com
0
           adilakshmi4765@gmail.com
1
2
          sravankumar7156@gmail.com
3
         sandeepyeruva1124@gmail.com
4
           sivajibejjanki@gmail.com
5
         ramyayalabolu123r@gmail.com
6
         charithareddy3914@gmail.com
7
       gayathripolepalli70@gmail.com
8
            syedtasleem07@gmail.com
9
          sowjanyathota11@gmail.com
10
            tammasahithi1@gmail.com
11
            Podilisarayu6@gmail.com
12
          shaikkarishma811@gmail.com
13
        Kumarvalaparla890@gmail.com
14
             Patchachinnu@gmail.com
15
              manu952041@gmail.com
          vanukuri.raghava@gmail.com
16
            Shaiksakina05@gmail.com
17
               us465249@gmail.com
18
19
        vallu.srinu756939@gmail.com
20
    undelachandraobulareddy@gmail.com
        #data preprocessing
        print(df.info())
        print(df.dropna())
        print(df.isnull())
        (df.fillna(method='bfill'))
        (df.fillna(method='ffill'))
OUTPUT:
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 52 entries, 0 to 51
```

Data columns (total 13 columns):

Non-Null Count Dtype

Column

| d | 1 Ema 2 STU 3 ROI 4 FAT 5 MO 6 COU 7 CGI 8 AGI 9 EM 10 BR 11 CUI 12 AA | DENT NAME LL NUMBER THER NAME THER NAME URSE PA E | 52 52 52 nor 52 nor- 52 nor- 52 nor- 48 no STER 5: 52), object | non-nulnon-nulnon-nulnon-nulnon-nullnullon-nullon-nullon-nullon-nullnon-nulnon-nulnon-nulnon-nulnon-nul | l obje l obje ll object object object object object | ect ect ect ect | | | | | | | |
|--|---|--|--|---|---|--|---|-------------|-------------|----------------------------------|-------------------------|-------------------------|----------------------|
| | one | | | | | E | \ | | | | | | |
| 0 1 2 3 4 5 6 7 8 9 | 2023-1 2023-1 2023-1 2023-1 2023-1 2023-1 2023-1 2023-1 | Timesta 06-13 14:24:58 06-13 14:25:15 06-13 14:25:50 06-13 14:26:01 06-13 14:26:23 06-13 14:27:05 06-13 14:27:41 06-13 14:28:10 06-13 14:28:10 | .772 .609 .957 .824 .848 .424 .330 .973 .072 .012 | sand sand sand sand char gayath so | vennachar adilakshm avankum deepyeruv sivajibejja syayalabo rithareddy hripolepa syedtasle owjanyath | Email addrendana1@gmai4765@gmaar7156@gmava1124@gmail.lu123r@gmailli70@gmail.em07@gmail.em07@gmail.hithi1@gma | ail.com ail.com ail.com ail.com ail.com l.com ail.com ail.com | n m m | | | D.D. | CU RR | AAD |
| | Tim esta mp | Email address | DEN T NAM E | L NU MBE R | ER NAM E | MOTHE R NAME | CO UR SE | G P A | A G E | EMAIL | BR AN CH | ENT SE MIS TER | HAA R NO |
| 0 | 2023 -06- 13 14:2 4:58. 772 | vennachanda na1@gmail. com | Venn a Chan dana | 21KP 1A44 C5 | Venna Raman areddy | Venna Lakshmi devi | DS | 8 | 1 9 | vennachanda na1@gmail. com | Dat a scie nce | 2-2 | 6363 3692 2883 |
| 1 | 2023 -06- 13 14:2 5:15. | adilakshmi4 765@gmail. com | N.Ve nkates h | 21KP 1A44 68 | N.Man ikya Rao | N.Sri Lakshmi | CS E | 83 | 1 9 | adilakshmi4 765@gmail. com | CS E- DS | II-II | 6025 1525 8256 |

| | Tim esta mp | Email address | STU DEN T NAM E | ROL L NU MBE R | FATH ER NAM E | MOTHE R NAME | CO UR SE | C G P A | A G E | EMAIL | BR AN CH | CU RR ENT SE MIS TER | AAD HAA R NO |
|---|--|---------------------------------------|--|----------------------------|---|---------------------------|----------------|------------------|-------------|---------------------------------------|---------------------------------|-------------------------------------|-----------------------|
| 2 | 2023 -06- 13 14:2 5:50. 957 | sravankumar 7156@gmail .com | Srava n Kuma r | 21KP 1A44 88 | Rama Chand ra Rao | Venkates waramm a | ME CH | 7 | 2 0 | sravankumar 7156@gmail .com | mec h | 4 | 9303 1905 3088 |
| 3 | 2023 -06- 13 14:2 6:01. 824 | sandeepyeru va1124@gm ail.com | Yeruv a sande ep reddy | 21KP 1A44 D1 | Yeruv a Ajay Kumar reddy | Yeruva Anjali Devi | CS E | 9. 5 | 2 0 | sandeepyeru va1124@gm ail.com | CS E | 2-3 | 5761 5499 0146 |
| 4 | 2023 -06- 13 14:2 6:13. 848 | sivajibejjank i@gmail.co m | B.siva ji | 22kp 5a44 02 | B.laks hmaia h | B.veram ma | DS | 0. 72 | 2 3 | sivajibejjank i@gmail.co m | Co mp uter scie nce | 2-2 | 8954 4466 2410 |
| 5 | 2023 -06- 13 14:2 6:23. 424 | ramyayalabo lu123r@gma il.com | Y.Ra mya | 21KP 1A44 C8 | Y.Anja iah | Y Lakshmi Rajyam | DS | 80 | 1 9 | ramyayalabo lu123r@gma il.com | CS D | 2-2 | 7245 7458 8425 |
| 6 | 2023 -06- 13 14:2 7:05. 330 | charitharedd y3914@gma il.com | P.char itha reddy | 21KP 1A44 75 | P.Mad hava Reddy | P.Kavith a | DS | 70 | 1 9 | charitharedd y3914@gma il.com | CS D | 2.2 | 8101 7752 4502 |
| 7 | 2023 -06- 13 14:2 7:16. 973 | gayathripole palli70@gm ail.com | POLE PALL I. GAY ATH RI | 21KP 1A44 81 | POLE PALLI GURU BRAH MA CHAR | POLEPA LLI.SRI DEVI | DS | 10 | 1 9 | gayathripole palli70@gm ail.com | Dat a Scie nce | 2-2 | 7218 1916 8061 |

| | Tim esta mp | Email address | STU DEN T NAM E | ROL L NU MBE R | FATH ER NAM E | MOTHE R NAME | CO UR SE | C G P A | A G E | EMAIL | BR AN CH | CU RR ENT SE MIS TER | AAD HAA R NO |
|--|--|--|--|---|---|---------------------------|---|---|---|--|--------------------------------------|-------------------------------------|-----------------------|
| 8 | 2023 -06- 13 14:2 7:41. 072 | syedtasleem 07@gmail.c om | Syed Tasle em Afroz e | 21KP 1A44 A9 | Syed Rahim an | Syed Naseema | ME CH | 8 | 1 9 | syedtasleem 07@gmail.c om | DS | 2-2 | 6170 2035 4793 |
| 9 | 2023 -06- 13 14:2 8:10. 012 | sowjanyatho ta11@gmail. com | T.SO WJA NYA | 21KP 1A44 B6 | T.SA MBA SIVA RAO | T.ARUN A KUMAR I | DS | 8 | 1 9 | sowjanyatho ta11@gmail. com | DA TA SCI EN CE | 2-2 | 3386 6694 8901 |
| 1 0 | 2023 -06- 13 14:2 8:10. 559 | tammasahith i1@gmail.co m | Tam ma Sahith i | 21KP 1A44 B0 | Tamm a krishn a reddy | Tamma Padmava thi | DS | 7. 7 | 1 9 | tammasahith i1@gmail.co m | CS E (Da ta scie nce) | 2-2 | 6853 4983 2128 |
| 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | | adilaksh sravanku sandeepyer sivajibe ramyayalab charitharede gayathripolepa syedta sowjanya tamma podilis shaikkaris kumarvalap patcha wanukuri.r | nandana1 nmi4765 mar7156 uva1124 ijjanki@g olu123r(dy3914@ alli70@g sleem07 uthota11(asahithi1 arayu6@ hma811(arla890(chinnu3(nu95204 | @gmail. @gmail.co | com .com com m com om com com com com com com | POLI S | P.cha P.cha EPALI Syed T DILI I sh A Arav Pa | enna N. Sra sand aritha LI. C aslee Tam LAK naik vind tcha pulu | Venavan eep 3.siv Y rec SAY ma SHM kari Kun Jasy Ra | aji .Ramya ddy ATHRI Afroze WJANYA Sahithi MISARAYU shma | | 1 | 4 |

```
18 us465249@gmail.com S sk usman
19 vallu.srinu756939@gmail.com Vallu Srinu Siva Subrahmanyam
20 undelachandraobulareddy@gmail.com Undela Chandra Obula Reddy
```

#by using describe function
df1=df["CGPA"]. describe()
print(df1)

OUTPUT:

count 52 unique 27 top 80 freq 7

Name: CGPA, dtype: int64

#finding null values and sum of null va. df. Isnull()

OUTPUT:

Out[7]:

| | Email addre ss | STUDE NT NAME | ROLL NUMB ER | FATH ER NAME | MOTH ER NAME | COUR SE | CGP A | AG E | BRAN CH | CURRE NT SEMIST ER | AADHA AR NO |
|---|----------------------|---------------------|--------------------|--------------------|--------------------|------------|----------|-----------|------------|-----------------------------|----------------|
| 0 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 1 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 2 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 3 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 4 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 5 | False | False | False | False | False | False | False | Fals e | False | False | False |

| | Email addre ss | STUDE NT NAME | ROLL NUMB ER | FATH ER NAME | MOTH ER NAME | COUR SE | CGP A | AG E | BRAN CH | CURRE NT SEMIST ER | AADHA AR NO |
|--------|----------------------|---------------------|--------------------|--------------------|--------------------|------------|----------|-----------|------------|-----------------------------|----------------|
| 6 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 7 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 8 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 9 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 1 0 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 1 1 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 1 2 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 1 3 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 1 4 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 1 5 | False | False | False | False | False | False | False | Fals e | True | False | False |
| 1 6 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 1 7 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 1 8 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 1 9 | False | False | False | False | False | False | False | Fals e | False | False | False |
| 2 0 | False | False | False | False | False | False | False | Fals e | False | False | False |
| | | | | | | | | | | | |

#finding null values and sum of null values

OUTPUT:

| Email addre ss | STUDE NT NAME | ROLL NUMB ER | FATH ER NAME | MOTH ER NAME | COUR SE | CGP A | AG E | BRAN CH | CURRE NT SEMIST ER | AADHA AR NO | |
|----------------------|---------------------|--------------------|--------------------|--------------------|------------|----------|-----------|------------|-----------------------------|----------------|-----------|
| 0 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 1 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 2 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 3 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 4 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 5 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 6 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 7 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 8 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 9 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 10 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 11 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |

| Email addre ss | STUDE NT NAME | ROLL NUMB ER | FATH ER NAME | MOTH ER NAME | COUR SE | CGP A | AG E | BRAN CH | CURRE NT SEMIST ER | AADHA AR NO | |
|----------------------|---------------------|--------------------|--------------------|--------------------|------------|----------|-----------|------------|-----------------------------|----------------|-----------|
| 12 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 13 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 14 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 15 | False | False | False | False | False | False | Fals e | False | True | False | Fal se |
| 16 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 17 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 18 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 19 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |
| 20 | False | False | False | False | False | False | Fals e | False | False | False | Fal se |

#filling null values using ffill
df.ffill(axis=1,inplace=True)

df.isnull().sum()

OUTPUT:

Email address 0

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

#shaping the data frame by using shape()
print("shape of the data frame:")
print(df.shape)

OUTPUT:

shape of the data frame: (52, 11)

df.columns

OUTPUT:

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

____1

```
#renaming the column names
df.rename(columns={'Email address':'Gmail','CURRENT
SEMISTER':'SEMISTER','AADHAR NO':'UIDAI NO'},inplace=True)
print(df.columns)
```

OUTPUT:

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

Print(df)

OUTPUT:

| | Gmail | STUDENT 1 | NAME \ | | |
|----|------------|------------------------|-------------|--------------------|---|
| 0 | ver | nnachandana1@gmail.com | , | Venna Chandana | |
| 1 | | lakshmi4765@gmail.com | | N.Venkatesh | |
| 2 | | ankumar7156@gmail.com | | Sravan Kumar | |
| 3 | sandee | pyeruva1124@gmail.com | Yeru | va sandeep reddy | |
| 4 | siv | ajibejjanki@gmail.com | | B.sivaji | |
| 5 | ramyay | yalabolu123r@gmail.com | | Y.Ramya | |
| 6 | charith | areddy3914@gmail.com | P | .charitha reddy | |
| 7 | gayathrip | olepalli70@gmail.com | POLEPA | ALLI. GAYATHRI | |
| 8 | sy | edtasleem07@gmail.com | Sye | d Tasleem Afroze | |
| 9 | sow | janyathota11@gmail.com | | T.SOWJANYA | |
| 10 | | mmasahithi1@gmail.com | | Tamma Sahithi | |
| 1 | | odilisarayu6@gmail.com | PODII | LI LAKSHMISARAYU | |
| 1. | | karishma811@gmail.com | | shaik karishma | |
| 1. | | valaparla890@gmail.com | Venkata A | Aravind Kumar.V | |
| 14 | | atchachinnu3@gmail.com | | Patcha Jaswanth | |
| 1: | | manu952041@gmail.com | n Pa | achipulusu Manohar | |
| 10 | | xuri.raghava@gmail.com | | Raghava | |
| 1' | | aiksakina05@gmail.com | | Shaik sameer | |
| 13 | | us465249@gmail.com | | S sk usman | |
| 19 | | rinu756939@gmail.com V | | | |
| 20 | | obulareddy@gmail.com | | ra Obula Reddy | |
| | ROLL NUMB | | FATHER NAME | MOTHER NAME | \ |
| 0 | 21KP1A44C5 | Venna Ram | • | Venna Lakshmidevi | |
| 1 | 21KP1A4468 | | ikya Rao | N.Sri Lakshmi | |
| 2 | 21KP1A4488 | Rama Cha | | Venkateswaramma | |
| 3 | 21KP1A44D1 | Yeruva Ajay Kun | | Yeruva Anjali Devi | |
| 4 | 22kp5a4402 | B.laksl | | B.veramma | |
| 5 | 21KP1A44C8 | | '.Anjaiah | Y Lakshmi Rajyam | |
| 6 | 21KP1A4475 | | va Reddy | P.Kavitha | |
| 7 | 21KP1A4481 | POLEPALLI. GURUBR | AHMA CHARI | POLEPALLI.SRIDEVI | |

 $\frac{-2}{2}$

| | 8 | 21KP1 | A44A9 | | Syed Rah | iman | Syed Naseema |
|---|----|--------|--------|------|------------------------|----------|---------------------|
| | 9 | 21KP1 | A44B6 | | T.SAMBA SIV | VA RAO | T.ARUNA KUMARI |
| | 10 | 21KP1 | A44B0 | | Tamma krishna re | eddy | Tamma Padmavathi |
| | 11 | 21KP1 | A4480 | | PODILI RA | AMESH | PODILI ADILAKSHMI |
| | 12 | 21KP1 | A4496 | | SHAIK | BAJI | SHAIK KHADRUN |
| | 13 | 21KP1A | 44C0 | | Veeraswai | ny.v | Lakshmi.v |
| | 14 | 21KP1 | A4477 | | Patcha appar | ao | Patcha sukanya |
| | 15 | 21KP1 | A4472 | | Pachipulusu Prasa | | Pachipulusu Bhavani |
| | 16 | 21KP1 | A44C3 | | Srinivasa red | | Jyothi |
| | 17 | 21KP1 | A44A3 | | Shaik Rahim ba | - | Shaik Raziya |
| | 18 | 21KP1 | A4492 | | S sk mastan v | ali | Mahabobba |
| | 19 | 21KP1A | 44C1 | | Vallu Srinivasa R | ao | Vallu Surya kumari |
| | 20 | 21KP1 | A44B9 | 1 | Undela Chinna Obula Re | eddy | Undela GuruLakshmi |
| | | COURSE | CGP | | GE | • | BRANCH \ |
| | 0 | DS | 8 | 19 | | | Data science |
| | 1 | CSE | 83 | 19 | | | CSE-DS |
| | 2 | MECH | 7 | 20 | | | mech |
| | 3 | CSE | 9.5 | 20 | | | CSE |
| | 4 | DS | 0.72 | 23 | | Co | mputer science |
| | 5 | DS | 80 | 19 | | | CSD |
| | 6 | DS | 70 | 19 | | | CSD |
| | 7 | DS | 10 | 19 | | | Data Science |
| | 8 | MECH | 8 | 19 | | | DS |
| | 9 | DS | 8 | 19 | | | DATA SCIENCE |
| | 10 | DS | 7.7 | 19 | | CSE | (Data science) |
| | 11 | DS | 7.5 | 19 | | | DATA SCIENCE |
| | 12 | DS | 9 | 19 | | | ds |
| | 13 | DS | 0.98 | 20 | | | Data Science |
| | 14 | CSE | 0.99 | 20 | | | Data science |
| | 15 | MECH | | 19 | | | 19 |
| | 16 | DS | 7 | 19 | | | Data science |
| | 17 | DS | 80 | 20 | | | DS |
| | 18 | DS | 50 | 19 | | | DS |
| | 19 | DS | 73 | 20 | Computer Science Engi | neering& | Data Science |
| | 20 | DS | 9.2 | 20 | - | Co | mputer Science |
| | | SEN | MISTER | 2 | AADHAAR NO | | _ |
| | 0 | | 2-2 | 63 | 6336922883 | | |
| | 1 | | II-II | 6023 | 515258256 | | |
| | 2 | | 4 | 93 | 0319053088 | | |
| | 3 | | 2-3 | 57 | 6154990146 | | |
| | 4 | | 2-2 | 89 | 5444662410 | | |
| | 5 | | 2-2 | 72 | 4574588425 | | |
| | 6 | | 2.2 | 81 | 0177524502 | | |
| | 7 | | 2-2 | 72 | 1819168061 | | |
| | 8 | | 2-2 | 61 | 7020354793 | | |
| | 9 | | 2-2 | 33 | 8666948901 | | |
| | 10 | | 2-2 | 68 | 5349832128 | | |
| | 11 | | 2-2 | 45 | 8689741091 | | |
| | 12 | | 2-2 | 66 | 3048521599 | | |
| | 13 | | 2-2 | 51 | 0305345824 | | |
| 1 | | | | | | | |

| 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 |
| | | |

---2

df.replace({'70':70},inplace=True)
print(df)

OUTPUT:

| | | Gmail | | STUDENT NAME |
|----|------------|-------------------------|---------------|---------------------|
| 0 | | nachandana1@gmail.com | | Venna Chandana |
| 1 | | akshmi4765@gmail.com | | N. Venkatesh |
| 2 | | nkumar7156@gmail.com | | Sravan Kumar |
| 3 | • | yeruva1124@gmail.com | Yen | uva sandeep reddy |
| 4 | siva | jibejjanki@gmail.com | | B.sivaji |
| 5 | | alabolu123r@gmail.com | | Y.Ramya |
| 6 | charitha | areddy3914@gmail.com |] | P.charitha reddy |
| 7 | <i>-</i> | olepalli70@gmail.com | POLE | PALLI. GAYATHRI |
| 8 | syc | edtasleem07@gmail.com | Sye | ed Tasleem Afroze |
| 9 | sowja | anyathota11@gmail.com | | T.SOWJANYA |
| 10 | tar | nmasahithi1@gmail.com | | Tamma Sahithi |
| 11 | po | dilisarayu6@gmail.com | POD1 | ILI LAKSHMISARAYU |
| 12 | shaikk | arishma811@gmail.com | | shaik karishma |
| 13 | | alaparla890@gmail.com | Venkata | Aravind Kumar.V |
| 14 | pa | tchachinnu3@gmail.com | | Patcha Jaswanth |
| 15 | | manu952041@gmail.com | F | Pachipulusu Manohar |
| 16 | vanuk | uri.raghava@gmail.com | | Raghava |
| 17 | sha | aiksakina05@gmail.com | | Shaik sameer |
| 18 | | us465249@gmail.com | | S sk usman |
| 19 | | inu756939@gmail.com Val | lu Srinu Siva | Subrahmanyam |
| 20 | | • 0 | | dra Obula Reddy |
| | ROLL NUMBE | | THER NAME | , |
| 0 | 21KP1A44C5 | Venna Ramana | • | Venna Lakshmidevi |
| 1 | 21KP1A4468 | N.Maniky | | N.Sri Lakshmi |
| 2 | 21KP1A4488 | Rama Chand | | Venkateswaramma |
| 3 | 21KP1A44D1 | Yeruva Ajay Kumar | _ | Yeruva Anjali Devi |
| 4 | 22kp5a4402 | B.lakshma | | B.veramma |
| 5 | 21KP1A44C8 | | njaiah | Y Lakshmi Rajyam |
| 6 | 21KP1A4475 | P.Madhava | • | P.Kavitha |
| 7 | 21KP1A4481 | POLEPALLI. GURUBRAH | _ | POLEPALLI.SRIDEVI |
| 8 | 21KP1A44A9 | Syed R | | Syed Naseema |
| 9 | 21KP1A44B6 | T.SAMBA S | | T.ARUNA KUMARI |
| 10 | 21KP1A44B0 | Tamma krishna | • | Tamma Padmavathi |
| 11 | 21KP1A4480 | PODILI 1 | | PODILI ADILAKSHMI |
| 12 | 21KP1A4496 | | K BAJI | SHAIK KHADRUN |
| 13 | 21KP1A44C0 | Veerasw | _ | Lakshmi.v |
| 14 | 21KP1A4477 | Patcha app | | Patcha sukanya |
| 15 | 21KP1A4472 | Pachipulusu Pra | | achipulusu Bhavani |
| 16 | 21KP1A44C3 | Srinivasa re | | Jyothi |
| 17 | 21KP1A44A3 | Shaik Rahim | babu | Shaik Raziya |

| 18 | 21KP1 | A4492 | | S sk mastan v | ali Mahabobba |
|---|--|---|---|---|---|
| 19 | | | | Vallu Srinivasa R | |
| 20 | 21KP1 | A44B9 | J | Jndela Chinna Obula Re | |
| (| COURSE | CGP. | A A | G E | 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 | | | | CSD |
| 7 | | | | | Data Science |
| | | | | | DS |
| 9 | | | | | DATA SCIENCE |
| | | | | | CSE (Data science) |
| | | | | | DATA SCIENCE |
| | | | | | ds |
| | | | | | Data Science |
| | | | | | Data science |
| | | | | | 19 |
| | | | | | Data science |
| | | | | | DS |
| | | | | | DS |
| | | | | | |
| 19 | DS | 73.00 | 20 | Computer Science Engi | ineering& Data Science |
| 20 | DS | 73.00 9.20 | 20 20 | Computer Science Engi | Computer Science |
| 20 | | | | Computer Science Engi | - |
| 20 | DS FPUT: | 9.20 | | - | Computer Science |
| 20 OU ' | DS | 9.20 il | 20 | STUDENT 1 | Computer Science |
| 20 | DS FPUT: | 9.20 il venn | 20 achar | STUDENT 1 dana1@gmail.com | Computer Science |
| 20 OU ' 0 | DS FPUT: | 9.20 il venn adila | 20 achar kshm | STUDENT 1 | Computer Science NAME \ Venna Chandana |
| 20 OU ' 0 1 | DS FPUT: Gma | 9.20 il venn adila sravan | 20 achar kshm ikuma | STUDENT 1 idana1@gmail.com i4765@gmail.com | Computer Science NAME \ Venna Chandana N.Venkatesh |
| 20 OU ' 0 1 2 | DS FPUT: Gma | 9.20 il venn adila sravan sandeepy | 20 achar kshm ikuma yeruv | STUDENT 1 Idana1@gmail.com i4765@gmail.com Ir7156@gmail.com | Computer Science NAME \ Venna Chandana N.Venkatesh Sravan Kumar |
| 20 OU ' 0 1 2 3 | DS FPUT: Gma | 9.20 il vennadila sravan sandeepy sivaji | 20 achar kshm akuma yeruva ibejja | STUDENT 1 Idana1@gmail.com i4765@gmail.com nr7156@gmail.com a1124@gmail.com | Computer Science NAME \ Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy |
| 20 OU ' 0 1 2 3 4 | DS FPUT: Gma | 9.20 il venn adila sravan sandeepy sivaji ramyaya | 20 achar kshm akuma yeruva ibejja laboli | STUDENT 1 dana1@gmail.com i4765@gmail.com ar7156@gmail.com a1124@gmail.com nki@gmail.com | Computer Science NAME \ Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji |
| 20 OU ' 0 1 2 3 4 5 6 7 | DS FPUT: Gma | 9.20 il vennadila sravan sandeepy sivaji ramyaya charithar | achar kshm ikuma yeruva ibejja labola reddy | STUDENT Madana1@gmail.com i4765@gmail.com nr7156@gmail.com a1124@gmail.com nki@gmail.com u123r@gmail.com | Computer Science NAME \ Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI |
| 20 OU ' 0 1 2 3 4 5 6 | DS FPUT: Gma | 9.20 il vennadilal sravan sandeepy sivaji ramyaya charithar yathripol | achar kshm kuma yeruv; ibejja laboli eddy; lepall | STUDENT Madana1@gmail.com i4765@gmail.com ar7156@gmail.com a1124@gmail.com nki@gmail.com u123r@gmail.com 3914@gmail.com | Computer Science NAME \ Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze |
| 20 OU ' 0 1 2 3 4 5 6 7 8 9 | DS FPUT: Gma | 9.20 il vennadila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjai | achar kshm kuma yeruva ibejja labola reddya lepalla dtasle | STUDENT Madana1@gmail.com i4765@gmail.com ar7156@gmail.com a1124@gmail.com nki@gmail.com a123r@gmail.com a104@gmail.com a104@gmail.com a10mail.com ar70@gmail.com ar00@gmail.com ar00@gmail.com | Computer Science Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA |
| 20 OU' 0 1 2 3 4 5 6 7 8 9 10 | DS FPUT: Gma | 9.20 il vennadilal sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam | achar kshm kshm kuma yeruva ibejja labolu eddya lepall dtasle myath imasa | STUDENT 1 Idana1@gmail.com i4765@gmail.com ar7156@gmail.com a1124@gmail.com nki@gmail.com a123r@gmail.com i70@gmail.com em07@gmail.com ota11@gmail.com hithi1@gmail.com | Computer Science NAME \ Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi |
| 20 OU' 0 1 2 3 4 5 6 7 8 9 10 11 | DS FPUT: Gma | 9.20 il vennadila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjai tam pod | achar kshm kuma yeruva ibejja labolu eddy lepall dtasle nyath imasa lilisara | STUDENT 1 Idana1@gmail.com i4765@gmail.com i47156@gmail.com i4124@gmail.com i4123r@gmail.com i4123r@gmail.com i40@gmail.com i670@gmail.com i670@gmail.com i6411@gmail.com i6411@gmail.com i6411@gmail.com i6411@gmail.com i6411@gmail.com | Computer Science NAME \ Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU |
| 20 OU ' 0 1 2 3 4 4 5 6 6 7 8 9 10 11 12 | DS FPUT: Gma | 9.20 il venn adila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka | achar kshm kuma yeruva ibejja labola reddya lepalla dtasle nyatha masa ilisara | STUDENT Madana1@gmail.com i4765@gmail.com ar7156@gmail.com a1124@gmail.com nki@gmail.com a123r@gmail.com a914@gmail.com i70@gmail.com em07@gmail.com ota11@gmail.com hithi1@gmail.com ayu6@gmail.com ayu6@gmail.com | Computer Science Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma |
| 20 OU ' 0 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 | DS FPUT: Gma | 9.20 il vennadilal sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva | achar kshmakuma yeruva ibejja labola eddyale lepalla dtasle myatha masa lilisara lisara | STUDENT Manal @gmail.com i4765@gmail.com i4765@gmail.com i4124@gmail.com i4123r@gmail.com i423r@gmail.com i40@gmail.com i40@gmail.com i40@gmail.com i40@gmail.com i40@gmail.com i411@gmail.com i411@gmail.com i4811@gmail.com i4890@gmail.com | Computer Science NAME \ Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V |
| 20 OU ' 0 1 2 3 4 4 5 5 6 6 7 8 8 9 10 11 12 13 14 | DS FPUT: Gma | 9.20 il vennadila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva | achar kshmakuma yeruva ibejja labola eddy lepalla dtasle nyatha masa lilisara rishmalapara | STUDENT 1 Idana1@gmail.com i4765@gmail.com i47156@gmail.com ia1124@gmail.com ia123r@gmail.com i3914@gmail.com i70@gmail.com iem07@gmail.com iota11@gmail.com ihithi1@gmail.com ia811@gmail.com ia890@gmail.com ia890@gmail.com innu3@gmail.com | Computer Science Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V Patcha Jaswanth |
| 20 OU ' 0 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 | DS FPUT: Gma | il vennadila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva | achar kshm kuma yeruva ibejja labola eddya lepalla dtasle myathamasa ilisara rishmalapar chachanu | STUDENT Madana1@gmail.com i4765@gmail.com i4765@gmail.com i4124@gmail.com i423r@gmail.com i423r@gmail.com i423r@gmail.com i40@gmail.com i670@gmail.com i670@gmail.com i6411@gmail.com i6411@gmail.com i6411@gmail.com i6490@gmail.com i64890@gmail.com i6490@gmail.com i6490@gmail.com i6490@gmail.com i6490@gmail.com i6490@gmail.com | Computer Science Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V Patcha Jaswanth Pachipulusu Manohar |
| 20 OU ' 0 1 2 3 4 4 5 5 6 6 7 8 9 10 11 12 13 14 15 16 | DS FPUT: Gma | il venn adila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva pato | achar kshmakuma yeruva ibejja labola reddy lepalla dtasle nyatha masa lilisara irishmalapara chacha manu ri.rag | STUDENT Madana1@gmail.com i4765@gmail.com i4765@gmail.com i47156@gmail.com i4124@gmail.com i423r@gmail.com i423r@gmail.com i40@gmail.com i670@gmail.com i670@gmail.com i6411@gmail.com i6411@gmail.com i6411@gmail.com i64890@gmail.com | Computer Science NAME \ Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V Patcha Jaswanth Pachipulusu Manohar Raghava |
| 20 OU ' 0 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 | DS FPUT: Gma | il venn adila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva pato | achar kshmakuma yeruva ibejja labola labola lepalla dtasle myatha masa lilisara rishmalapara chacha manu ri.rag iksaki | STUDENT Madana1@gmail.com i4765@gmail.com i4765@gmail.com i4124@gmail.com i4123r@gmail.com i4123r@gmail.com i410@gmail.com i410@gmail.com i410@gmail.com i410@gmail.com i411@gmail.com i411@gmail.com i411@gmail.com i4890@gmail.com | Computer Science Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V Patcha Jaswanth Pachipulusu Manohar Raghava Shaik sameer |
| 20 OU ' 0 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 | DS FPUT: Gma | il vennadila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva pato | achar kshm kuma yeruva ibejja labola eddya lepalla dtasle nyathamasa ilisara rishmasa lapara chachamanu ri.rag iksaki | STUDENT Madana1@gmail.com i4765@gmail.com i4765@gmail.com i4124@gmail.com i423r@gmail.com i423r@gmail.com i40@gmail.com i60@gmail.com i60@gmail.com i60@gmail.com i61@gmail.com i61@gmail.com i61@gmail.com i61@gmail.com i61@gmail.com i681@gmail.com i6890@gmail.com i6890@gmail.com i6890@gmail.com i6890@gmail.com i6890@gmail.com i65241@gmail.com i65249@gmail.com | Computer Science Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V Patcha Jaswanth Pachipulusu Manohar Raghava Shaik sameer S sk usman |
| 20 OU ' 0 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 | DS FPUT: Gma | il venn adila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva patc vanuku shai | achar kshmakuma yeruva ibejja labola reddy lepalla dtasle nyatha masa lilisara lisara lilisara iksaki manu ri.rag iksaki usa | STUDENT Madana1@gmail.com i4765@gmail.com i4765@gmail.com i47156@gmail.com i4124@gmail.com i423r@gmail.com i423r@gmail.com i40@gmail.com i40@gmail.com i40@gmail.com i401@gmail.com i4811@gmail.com i4890@gmail.com | Computer Science Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V Patcha Jaswanth Pachipulusu Manohar Raghava Shaik sameer |
| | 19 20 0 11 22 33 44 55 66 77 88 99 110 111 112 113 114 115 116 117 118 | 19 21KP1A 20 21KP1A COURSE 0 DS 1 CSE 2 MECH 3 CSE 4 DS 5 DS 6 DS 7 DS 8 MECH 9 DS 10 DS 11 DS 12 DS 13 DS 14 CSE 15 MECH 16 DS 17 DS | 19 21KP1A44C1 20 21KP1A44B9 COURSE | 19 21KP1A44C1 20 21KP1A44B9 U COURSE CGPA A 0 DS 8.00 19 1 CSE 83.00 19 2 MECH 7.00 20 3 CSE 9.50 20 4 DS 0.72 23 5 DS 80.00 19 6 DS 70.00 19 7 DS 10.00 19 8 MECH 8.00 19 10 DS 7.70 19 11 DS 7.50 19 12 DS 9.00 19 13 DS 0.98 20 14 CSE 0.99 20 15 MECH 8.50 19 16 DS 7.00 19 17 DS 80.00 20 18 DS 50.00 19 | 19 21KP1A44C1 |

----2

| | ROLL NUMBE | · · |
|--|------------------|---|
| 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 |
| | COURSE CGPA | A AGE BRANCH \ |
| _ | | • |
| 0 | DS 8 CSE 83 | 19 Data science 19 CSE-DS |
| $\begin{vmatrix} 1 \\ 2 \end{vmatrix}$ | MECH 7 | |
| 3 | CSE 9.5 | 20 mech 20 CSE |
| 4 | DS 0.72 | 23 Computer science |
| 5 | DS 0.72 DS 80 | 19 CSD |
| 6 | DS 70 | 19 CSD |
| 7 | DS 10 | 19 Data Science |
| 8 | MECH 8 | 19 Data Science DS |
| 9 | DS 8 | 19 DATA SCIENCE |
| 10 | DS 7.7 | 19 CSE (Data science) |
| 11 | DS 7.7 | 19 DATA SCIENCE |
| 12 | DS 7.3 | 19 ds |
| 13 | DS 0.98 | 20 Data Science |
| 14 | CSE 0.99 | 20 Data science 20 Data science |
| 15 | MECH 8.5 | 19 19 |
| 16 | DS 7 | 19 Data science |
| 17 | DS / DS 80 | 20 DS |
| 18 | DS 50 | 20 DS 19 DS |
| 19 | DS 50 DS 73 | |
| | | |
| 20 | DS 9.2 | 20 Computer Science |
| | SEMISTER | R AADHAAR NO |
| | 2.2 | (2(22(02202 |

2-2

636336922883

0

| 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 721819108001 | |
| 9 | 2-2 017020334793 | |
| 10 | 2-2 538000948901 | |
| 11 | 2-2 085349832128 2-2 458689741091 | |
| 12 | 2-2 458089741091 | |
| 13 | 2-2 510305345824 | |
| 14 | 2-2 744020413963 | |
| 15 | 2-2 744020413963 2-2 559366114423 | |
| | | |
| 16 | | |
| 17 | 2-2 529261464345 | |
| 18 | 2-2 568753875709 ************************************ | |
| 19 | 7 | |
| 20 | 2-2 693621780842 Gmail | CTUDENT NAME |
| | | STUDENT NAME \ Venna Chandana |
| $\begin{bmatrix} 0 \\ 1 \end{bmatrix}$ | vennachandana1@gmail.com | N.Venkatesh |
| $\begin{vmatrix} 1 \\ 2 \end{vmatrix}$ | adilakshmi4765@gmail.com | Sravan Kumar |
| $\begin{vmatrix} 2 \\ 3 \end{vmatrix}$ | sravankumar7156@gmail.com sandeepyeruva1124@gmail.com | Yeruva sandeep reddy |
| 4 | sivajibejjanki@gmail.com | B.sivaji |
| 5 | ramyayalabolu123r@gmail.com | Y.Ramya |
| 6 | charithareddy3914@gmail.com | P.charitha reddy |
| 7 | gayathripolepalli70@gmail.com | POLEPALLI. GAYATHRI |
| 8 | syedtasleem07@gmail.com | Syed Tasleem Afroze |
| 9 | sowjanyathota11@gmail.com | T.SOWJANYA |
| 10 | tammasahithi1@gmail.com | Tamma Sahithi |
| 11 | podilisarayu6@gmail.com | PODILI LAKSHMISARAYU |
| 12 | shaikkarishma811@gmail.com | shaik karishma |
| 13 | kumarvalaparla890@gmail.com | Venkata Aravind Kumar.V |
| 14 | patchachinnu3@gmail.com | Patcha Jaswanth |
| 15 | manu952041@gmail.com | Pachipulusu Manohar |
| 16 | vanukuri.raghava@gmail.com | Raghava |
| 17 | shaiksakina05@gmail.com | Shaik sameer |
| 18 | us465249@gmail.com | S sk usman |
| 19 | _ | allu Srinu Siva Subrahmanyam |
| 20 | undelachandraobulareddy@gmail.com | Undela Chandra Obula Reddy |
| | | |
| | SEMISTER AADHAAR NO | |
| 0 | 2-2 636336922883 | |
| 1 | II-II 602515258256 | |
| 2 | 4 930319053088 | |
| 3 | 2-3 576154990146 | |
| 4 | 2-2 895444662410 | |
| | | |

26

```
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
```

```
df.replace({'70':70},inplace=True)
print(df)
```

----2

OUTPUT:

| | | Gmail | STUDE | ENT NAME \ | |
|---|--|--|---|---|------------|
| 0 | venn | achandana1@gmail.com | | Venna Chandana | |
| 1 | | kshmi4765@gmail.com | | N.Venkatesh | |
| 2 | | nkumar7156@gmail.com | | Sravan Kumar | |
| 3 | | yeruva1124@gmail.com | Ver | ruva sandeep reddy | |
| 4 | | ibejjanki@gmail.com | 101 | B.sivaji | |
| 5 | • | labolu123r@gmail.com | | Y.Ramya | |
| 6 | | reddy3914@gmail.com | | P.charitha reddy | |
| 7 | | lepalli70@gmail.com | | PALLI. GAYATHRI | |
| 8 | | dtasleem07@gmail.com | | ved Tasleem Afroze | |
| 9 | • | nyathota11@gmail.com | S) | T.SOWJANYA | |
| 10 | • | masahithi1@gmail.com | | Tamma Sahithi | |
| 11 | | lilisarayu6@gmail.com | POD | OILI LAKSHMISARAYU | |
| 12 | - | arishma811@gmail.com | 102 | shaik karishma | |
| 13 | | laparla890@gmail.com | Venkata | Aravind Kumar.V | |
| 14 | | chachinnu3@gmail.com | Vomitata | Patcha Jaswanth | |
| 15 | P | manu952041@gmail.com |] | Pachipulusu Manohar | |
| 16 | vanuku | ri.raghava@gmail.com | | Raghava | |
| 17 | | iksakina05@gmail.com | | Shaik sameer | |
| 18 | | us465249@gmail.com | | S sk usman | |
| 19 | vallu.srii | nu756939@gmail.com \ | allu Srinu Siva | Subrahmanyam | |
| 20 | | bulareddy@gmail.com | | dra Obula Reddy | |
| | | | | dia Obaia Reday | |
| | ROLL NUMBER | , <u> </u> | ATHER NAME | · · | NAME \ |
| 0 | | , <u> </u> | ATHER NAME | · · | NAME \ |
| 0 | ROLL NUMBER | R F Venna Rama | ATHER NAME | E MOTHER N | NAME \ |
| 1 . | ROLL NUMBER 21KP1A44C5 | R F Venna Rama | ATHER NAME anareddy ikya Rao | E MOTHER N Venna Lakshmidevi | JAME \ |
| 1 | ROLL NUMBE 21KP1A44C5 21KP1A4468 | R F Venna Rama N.Man | ATHER NAME nnareddy ikya Rao ndra Rao | E MOTHER N Venna Lakshmidevi N.Sri Lakshmi | JAME \ |
| 1 2 | ROLL NUMBE 21KP1A44C5 21KP1A4468 21KP1A4488 | R F Venna Rama N.Man Rama Cha | ATHER NAME unareddy ikya Rao ndra Rao uar reddy | E MOTHER N Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma | NAME \ |
| 1 2 3 | ROLL NUMBE 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 | R F Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh | ATHER NAME unareddy ikya Rao ndra Rao uar reddy | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi | NAME \ |
| 1 2 3 4 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 | R F Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah .Anjaiah | E MOTHER N Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma | JAME \ |
| 1 2 3 4 5 6 7 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4475 | R F Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh Y | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah .Anjaiah va Reddy | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam | · |
| 1 2 3 4 5 6 7 8 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4475 21KP1A44A9 | R Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh Y P.Madhav POLEPALLI. GURUBR Syed | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah .Anjaiah va Reddy AHMA CHARI Rahiman | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDI | EVI |
| 1 2 3 4 5 6 7 8 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4475 21KP1A44A9 21KP1A44A9 | R Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh Y P.Madhav POLEPALLI. GURUBR Syed T.SAMBA | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah Anjaiah va Reddy AHMA CHARI Rahiman A SIVA RAO | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDI Syed Naseema T.ARUNA KUMA | EVI |
| 1 2 3 4 5 6 7 8 9 10 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B6 21KP1A44B0 | R Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh Y P.Madhav POLEPALLI. GURUBR Syed T.SAMBA Tamma krish | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah Anjaiah VA REDAY AHMA CHARI Rahiman A SIVA RAO na reddy | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDI Syed Naseema T.ARUNA KUMA | EVI RI |
| 1 2 3 4 5 6 7 8 9 10 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B0 21KP1A44B0 21KP1A4480 | R Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh Y P.Madhav POLEPALLI. GURUBR Syed T.SAMBA Tamma krishi PODIL | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah Anjaiah A Reddy AHMA CHARI Rahiman A SIVA RAO na reddy I RAMESH | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDI Syed Naseema T.ARUNA KUMA Tamma Padmavathi PODILI ADILAKSHMI | EVI .RI |
| 1 2 3 4 5 6 7 8 9 10 11 12 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4475 21KP1A44A9 21KP1A44A9 21KP1A44B6 21KP1A44B0 21KP1A4480 21KP1A4496 | R Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh Y P.Madhav POLEPALLI. GURUBR Syed T.SAMBA Tamma krish | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah Anjaiah va Reddy AHMA CHARI Rahiman A SIVA RAO na reddy I RAMESH AIK BAJI | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDE Syed Naseema T.ARUNA KUMA Tamma Padmavathi PODILI ADILAKSHMI | EVI .RI |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4475 21KP1A4481 21KP1A44B0 21KP1A44B0 21KP1A44B0 21KP1A4496 21KP1A44C0 | R Venna Rama N.Man Rama Cha Yeruva Ajay Kum B.laksh Y P.Madhav POLEPALLI. GURUBR Syed T.SAMBA Tamma krishi PODIL SH | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah Anjaiah A Reddy AHMA CHARI Rahiman A SIVA RAO na reddy I RAMESH AIK BAJI aswamy.v | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDI Syed Naseema T.ARUNA KUMA Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v | EVI .RI |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B6 21KP1A44B0 21KP1A44B0 21KP1A4470 21KP1A4477 | R Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh Y P.Madhav POLEPALLI. GURUBR Syed T.SAMBA Tamma krishi PODIL SH Veera | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah Anjaiah A Reddy AHMA CHARI Rahiman A SIVA RAO na reddy I RAMESH AIK BAJI aswamy.v | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDI Syed Naseema T.ARUNA KUMA Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v Patcha sukanya | EVI .RI |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4475 21KP1A44A9 21KP1A44B6 21KP1A44B0 21KP1A44B0 21KP1A4470 21KP1A4470 | R Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh Y P.Madhav POLEPALLI. GURUBR Syed T.SAMBA Tamma krishi PODIL SH Veera Patcha a | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah Anjaiah va Reddy AHMA CHARI Rahiman A SIVA RAO na reddy I RAMESH AIK BAJI aswamy.v apparao Prasad P | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDE Syed Naseema T.ARUNA KUMA Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v Patcha sukanya | EVI .RI |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4475 21KP1A4480 21KP1A44B0 21KP1A44B0 21KP1A4496 21KP1A4470 21KP1A4477 21KP1A4472 21KP1A4472 | R Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh Y P.Madhav POLEPALLI. GURUBR Syed T.SAMBA Tamma krishi PODIL SH Veera Patcha a Pachipulusu Srinivasa | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah Anjaiah va Reddy AHMA CHARI Rahiman A SIVA RAO na reddy I RAMESH AIK BAJI aswamy.v apparao Prasad P reddy | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDE Syed Naseema T.ARUNA KUMA Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v Patcha sukanya Pachipulusu Bhavani Jyothi | EVI RI |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A44C8 21KP1A4475 21KP1A44A9 21KP1A44B0 21KP1A44B0 21KP1A44B0 21KP1A44C0 21KP1A44C0 21KP1A44C0 21KP1A44C0 21KP1A44C0 21KP1A44C3 21KP1A44C3 | R Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh Y P.Madhav POLEPALLI. GURUBR Syed T.SAMBA Tamma krishi PODIL SH Veera Patcha a Pachipulusu Srinivasa | ATHER NAME unareddy ikya Rao ndra Rao nar reddy maiah Anjaiah A Reddy AHMA CHARI Rahiman A SIVA RAO na reddy I RAMESH AIK BAJI uswamy.v upparao Prasad P reddy m babu | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDI Syed Naseema T.ARUNA KUMA Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v Patcha sukanya Pachipulusu Bhavani Jyothi Shaik Raziya | EVI .RI |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | ROLL NUMBER 21KP1A44C5 21KP1A44C8 21KP1A44B0 21KP1A44B0 21KP1A44B0 21KP1A44B0 21KP1A44C0 21KP1A44A0 | R Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh Y P.Madhav POLEPALLI. GURUBR Syed T.SAMBA Tamma krish PODIL SH Veera Patcha a Pachipulusu Srinivasa Shaik Rahi S sk mast | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah Anjaiah va Reddy AHMA CHARI Rahiman A SIVA RAO na reddy I RAMESH AIK BAJI aswamy.v apparao Prasad P reddy m babu an vali | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDE Syed Naseema T.ARUNA KUMA Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v Patcha sukanya Pachipulusu Bhavani Jyothi Shaik Raziya Mahabobba | EVI RI |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | ROLL NUMBER 21KP1A44C5 21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A44C8 21KP1A4475 21KP1A44A9 21KP1A44B0 21KP1A44B0 21KP1A44B0 21KP1A44C0 21KP1A44C0 21KP1A44C0 21KP1A44C0 21KP1A44C0 21KP1A44C3 21KP1A44C3 | R Venna Rama N.Man Rama Cha Yeruva Ajay Kun B.laksh Y P.Madhav POLEPALLI. GURUBR Syed T.SAMBA Tamma krishi PODIL SH Veera Patcha a Pachipulusu Srinivasa | ATHER NAME anareddy ikya Rao ndra Rao nar reddy maiah Anjaiah va Reddy AHMA CHARI Rahiman A SIVA RAO na reddy I RAMESH AIK BAJI aswamy.v apparao Prasad P reddy m babu an vali sa Rao | Venna Lakshmidevi N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDI Syed Naseema T.ARUNA KUMA Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v Patcha sukanya Pachipulusu Bhavani Jyothi Shaik Raziya | EVI RI |

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 | Gmail 5 | 52 non-null | object |
| 1 | STUDENT NAM | E 52 non-null | object |
| 2 | ROLL NUMBER | 52 non-null | object |
| 3 | FATHER NAME | 52 non-null | object |
| 4 | MOTHER NAMI | E 52 non-null | object |
| 5 | COURSE | 52 non-null | object |
| 6 | CGPA | 52 non-null | float64 |
| 7 | AGE | 52 non-null | object |
| 8 | BRANCH | 52 non-null | object |
| 9 | SEMISTER | 52 non-null | object |
| 10 | AADHAAR NO | 52 non-null | object |

dtypes: float64(1), object(10) memory usage: 4.6+ KB

#filtering the data who got less than or greater than 60% and
arranging those students in ascending order
cgpa=df[(df["CGPA"]>8.0)]
cgpa

OUTPUT:

| G m ail | STUDENT NAME | ROLL NUMB ER | FAT HER NAM E | MOTHER NAME | COURSE | C G PA | A G E | BR AN CH | SEMI STER | AAD HAA R NO | |
|---------------|---------------------------------|----------------------------|------------------------|-------------------------------|--------------------------|--------------|-------------|----------------|--------------|-----------------------|----------------------|
| 1 | adilakshmi4765@ gmail.com | N.Venk atesh | 21KP 1A44 68 | N.Manikya Rao | N.Sri Lakshmi | CS E | 83 | 19 | CSE- DS | II-II | 60251 52582 56 |
| 3 | sandeepyeruva11 24@gmail.com | Yeruva sandeep reddy | 21KP 1A44 D1 | Yeruva Ajay Kumar reddy | Yeruva Anjali Devi | CS E | 9. 5 | 20 | CSE | 2-3 | 57615 49901 46 |
| 5 | ramyayalabolu12 | Y.Ramy | 21KP | Y.Anjaiah | Y Lakshmi | DS | 80 | 19 | CSD | 2-2 | 72457 |

| G m ail | STUDENT NAME | ROLL NUMB ER | FAT HER NAM E | MOTHER NAME | COURSE | C G PA | A G E | BR AN CH | SEMI STER | AAD HAA R NO | |
|---------------|---|--|------------------------|---|---------------------------|--------------|-------------|----------------|--|-----------------------|----------------------|
| | 3r@gmail.com | a | 1A44 C8 | | Rajyam | | .0 | | | | 45884 25 |
| 6 | charithareddy391 4@gmail.com | P.charit ha reddy | 21KP 1A44 75 | P.Madhava Reddy | P.Kavitha | DS | 70 .0 | 19 | CSD | 2.2 | 81017 75245 02 |
| 7 | gayathripolepalli7 0@gmail.com | POLEP ALLI. GAYA THRI | 21KP 1A44 81 | POLEPALL I. GURUBRA HMA CHARI | POLEPAL LI.SRIDE VI | DS | 10 | 19 | Data Scienc e | 2-2 | 72181 91680 61 |
| 12 | shaikkarishma811 @gmail.com | shaik karishm a | 21KP 1A44 96 | SHAIK BAJI | SHAIK KHADRU N | DS | 9. 0 | 19 | ds | 2-2 | 66304 85215 99 |
| 15 | manu952041@g mail.com | Pachipu lusu Manoha r | 21KP 1A44 72 | Pachipulusu Prasad | Pachipulus u Bhavani | M EC H | 8. 5 | 19 | 19 | 2-2 | 55936 61144 23 |
| 17 | shaiksakina05@g mail.com | Shaik sameer | 21KP 1A44 A3 | Shaik Rahim babu | Shaik Raziya | DS | 80 | 20 | DS | 2-2 | 52926 14643 45 |
| 18 | us465249@gmail. com | S sk usman | 21KP 1A44 92 | S sk mastan vali | Mahabobb a | DS | 50 | 19 | DS | 2-2 | 56875 38757 09 |
| 19 | vallu.srinu756939 @gmail.com | Vallu Srinu Siva Subrah manya m | 21KP 1A44 C1 | Vallu Srinivasa Rao | Vallu Surya kumari | DS | 73 .0 | 20 | Comp uter Scienc e Engin eering & Data Scienc e | 4 | ***** **** ** |
| 20 | undelachandraobu lareddy@gmail.c om | Undela Chandra Obula Reddy | 21KP 1A44 B9 | Undela Chinna Obula Reddy | Undela GuruLaksh mi | DS | 9. 2 | 20 | Comp uter Scienc e | 2-2 | 69362 17808 42 |
| 22 | anushayalabolu12 | Anusha | 21KP | Chinna | Lakshmi | DS | 75 | 19 | CSD | 2-2 | 83078 3 |

| G m ail | STUDENT NAME | ROLL NUMB ER | FAT HER NAM E | MOTHE NAM | (THE | SE | C G PA | A G E | BR AN CH | SEMI STER | | |
|---------------|--|---|--|---|---|------------|---------------------|-----------------------------------|----------------|-----------------------------------|--------------------------|--|
| | @gmail.com | yalabol u | 1A44 C7 | anjay | ya narayan | am a | | .0 | | | | 50660 37 |
| 23 | madhulathasure9 @gmail.com | SURE. MADH ULATH A | 21KP 1A44 A4 | SURE.V WANAD A | | | DS | 10 .0 | 20 | Data science | 2-2 | 77648 60626 08 |
| 25 | shiakmobin2002 @gmail.com | Shaikm obin | 21KP 1A44 97 | sha karimulla | | aik ana | DS | 8. 8 | 21 | Ds | 2.2 | 90435 56564 68 |
| 27 | ravuakshaya@gm ail.com | Ravu.ak shaya | 21KP 1A44 85 | Ravu.srin | _ | | DS | 80 | 19 | Ds | 2.2 | 54430 57831 28 |
| OU' | TPUT: | | | | | | | | | | | |
| | Gmail | STUD ENT | ROLL NUMB | FATH ER | MOTHE | CO | U | CG | A G | BRA | SEMI | AADH AAR |
| | | NAM E | ER | NAME | R NAME | RS | | PA | E | NCH | STER | NO NO |
| 0 | vennachandana1 @gmail.com | | | | Venna Lakshmid evi | RS | | 8.0 0 | E 19 | Data scien ce | 2-2 | |
| 0 | | Venna Chand | ER 21KP1 | Venna Raman | Venna Lakshmid | RS | SE OS | 8.0 | E | Data scien | | NO 636336 |
| | @gmail.com adilakshmi4765@ | Venna Chand ana N.Ven | 21KP1 A44C5 21KP1 | Venna Raman areddy N.Mani kya | Venna Lakshmid evi N.Sri | RS I | DS SE | 8.0 0 83. | 19 19 | Data scien ce | 2-2 | NO 636336 922883 602515 |
| 1 | @gmail.com adilakshmi4765@ gmail.com sravankumar7156 | Venna Chand ana N.Ven katesh | 21KP1 A44C5 21KP1 A4468 21KP1 | Venna Raman areddy N.Mani kya Rao Rama Chandr | Venna Lakshmid evi N.Sri Lakshmi | RS I | DS SE EC H | 8.0 0 83. 00 | 19 19 | Data scien ce CSE- DS | 2-2 II-II | 636336 922883 602515 258256 |
| 1 2 | @gmail.com adilakshmi4765@ gmail.com sravankumar7156 @gmail.com sandeepyeruva112 | Venna Chand ana N.Ven katesh Sravan Kumar Yeruva sandee p | 21KP1 A44C5 21KP1 A4468 21KP1 A4488 | Venna Raman areddy N.Mani kya Rao Rama Chandr a Rao Yeruva Ajay Kumar | Venna Lakshmid evi N.Sri Lakshmi Venkates waramma Yeruva Anjali | RS II | DS SE EC H | 8.0 0 83. 00 7.0 0 | 19 19 20 20 | Data scien ce CSE- DS | 2-2 II-II 4 | 636336 922883 602515 258256 930319 053088 |
| 1 2 3 | @gmail.com adilakshmi4765@ gmail.com sravankumar7156 @gmail.com sandeepyeruva112 4@gmail.com | Venna Chand ana N.Ven katesh Sravan Kumar Yeruva sandee p reddy B.sivaj | 21KP1 A44C5 21KP1 A4468 21KP1 A4488 21KP1 A44D1 | Venna Raman areddy N.Mani kya Rao Rama Chandr a Rao Yeruva Ajay Kumar reddy B.laksh | Venna Lakshmid evi N.Sri Lakshmi Venkates waramma Yeruva Anjali Devi | RS II | SE SE CH SE | 8.0 0 83. 00 7.0 0 | 19 19 20 20 | Data scien ce CSE-DS mech CSE | 2-2 II-II 4 2-3 | 922883 602515 258256 930319 053088 576154 990146 |

df.nlargest(52,columns=['CGPA'])

OUTPUT:

| | Gmail | STUDE NT NAME | ROLL NUM BER | FATHE R NAME | MOTH ER NAME | CO URS E | C GP A | A G E | BRANC H | SEMI STER | AADH AAR NO |
|-----|-----------------------------------|--------------------------------------|--------------------|-----------------------------------|--------------------------------------|----------------|--------------|-------------|--------------------------|---------------------|-------------------|
| 3 8 | abdulabdul22070 @gmail.com | Syed.Ab dul Rehama n | 21KP1 A44A6 | Syed.M eera Sharif | Bandi.Kr ishna veni | DS | 90. 00 | 20 | DS | 2-2 | 347853 509974 |
| 4 8 | sriharshanallaboth u@gmail.com | Nallabot hu. Sri Harsha | 21KP1 A4469 | Nallabot hu. Anjaney ulu | Nallabot hu. Anitha | DS | 90. 00 | 21 | CSD | 2-2 | 208611 060176 |
| 5 0 | arundathi0508@g mail.com | PANDA UMA ARUND ATHI | 21KP1 A4474 | PANDA NARA YANA RAO | PANDA PRASA NNA LAKSH MI | DS | 87. 00 | 19 | CSD | 2-2 | 652650 486629 |
| 1 | adilakshmi4765@g mail.com | N.Venka tesh | 21KP1 A4468 | N.Mani kya Rao | N.Sri Lakshmi | CSE | 83. 00 | 19 | CSE-DS | II-II | 602515 258256 |
| 5 | chinnivignesh144 @gmail.com | chinni vignesh teja yadav | 21KP1 A44C6 | Chinni Pratap Kumar | Chinni Bhargavi | DS | 80. 00 | 19 | Data Science | 4th semes ter | 639534 870436 |
| 4 4 | saidashaik371@g mail.com | SHAIK SAIDA ANWA R BASHA | 21KP1 A44A2 | SHAIK KUDH AN VALI | SHAIK SAIDA HUSSA NBI | DS | 80. 00 | 20 | DATAS CIENCE | 2-2 | 466722 650274 |
| 3 6 | nikitharayapati9@ gmail.com | Nikhitha Rayapati | 21KP1 A4487 | Rayapat i hanumat hrao | Rayapati malleswa ri | DS | 80. 00 | 19 | Ds | 2-2 | 963360 828294 |
| 2 7 | ravuakshaya@gma il.com | Ravu.ak shaya | 21KP1 A4485 | Ravu.sri nivasrao | Ravu.aru na kumari | DS | 80. 00 | 19 | Ds | 2.2 | 544305 783128 |
| 4 3 | paladugudurga1@ gmail.com | P. Durga Sri | 21KP1 A4473 | P. Amares wara rao | P. Seshu Kumari | DS | 80. 00 | 20 | CSD(Da ta Science) | 2-2 | 692162 661608 |

13 32

| Gmail | STUDE NT NAME | ROLL NUM BER | FATHE R NAME | MOTH ER NAME | CO URS E | C GP A | A G E | BRANC H | SEMI STER | AADH AAR NO |
|--|---------------------|--------------------|------------------------|-------------------------------|----------------|--------------|-------------|-------------------------|--------------|-------------------|
| shaiksakina05@g mail.com | Shaik sameer | 21KP1 A44A3 | Shaik Rahim babu | Shaik Raziya | DS | 80. 00 | 20 | DS | 2-2 | 529261 464345 |
| 5 ramyayalabolu123r @gmail.com | Y.Ramy a | 21KP1 A44C8 | Y.Anjai ah | Y Lakshmi Rajyam | DS | 80. 00 | 19 | CSD | 2-2 | 724574 588425 |
| thammisettysrikanthraj9@gmail.com | T.Srikan th | 21KP1 A44B5 | T.vasu | T.jaya | DS | 0.7 5 | 19 | Data Science | 2-2 | 673112 205183 |
| 4 sivajibejjanki@gm ail.com | B.sivaji | 22kp5a 4402 | B.laksh maiah | B.veram ma | DS | 0.7 | 23 | Comput er science | 2-2 | 895444 662410 |
| 2 farukh.786syed@g 1 mail.com | SYED.F ARUKH | 21KP1 A44A7 | SYED.B AJI | SYED.S ARTHA J BEGUM | DS | 0.7 | 19 | DS | 2-2 | 764320 730678 |

df.nsmallest(52,columns=['CGPA'])

OUTPUT:

| | Gmail | STUD ENT NAME | ROLL NUMB ER | FATHE R NAME | MOT HER NAME | COU RSE | CG PA | A G E | BRANC H | SEMI STER | AADH AAR NO |
|-----|-------------------------------------|--------------------------|--------------------|-------------------------|----------------------------|------------|-----------|-------------|-----------------|--------------|-------------------|
| 3 | harikabangaram31 3@gmail.com | Harika | 22KP5 A4401 | A.Subra manyam | A.Dha na Bhagya m | DS | 75. 00 | 19 | Data science | 2-2 | 574930 568520 |
| 4 2 | thiriveedhinagajyo thi@gmail.com | T. Nagajy othi | 21KP1 A44B7 | T. Venkayy a | T. Raman jamma | DS | 75. 00 | 19 | DS | 4 | 330477 145525 |
| 4 | reshmayalamanchi @gmail.com | Reshma yalama nchi | 21KP1 A44C9 | Yalaman chi subba | Yalam anchi sunitha | DS | 75. 00 | 19 | DS | 4 | 742366 316353 |
| | | | | | | | | | | 13 | 33 |

33

| | Gmail | STUD ENT NAME | ROLL NUMB ER | FATHE R NAME Rao | MOT HER NAME | COU RSE | CG PA | A G E | BRANC H | SEMI STER | AADH AAR NO |
|--------|---------------------------------|--|--------------------|-----------------------------|--------------------------------|------------|-----------|-------------|--------------------------|---------------------|-------------------|
| 2 2 | anushayalabolu12 @gmail.com | Anusha yalabol u | 21KP1 A44C7 | Chinna anjayya | Laksh mi naraya nama | DS | 75. 00 | 19 | CSD | 2-2 | 830785 066037 |
| 1 7 | shaiksakina05@g mail.com | Shaik sameer | 21KP1 A44A3 | Shaik Rahim babu | Shaik Raziya | DS | 80. 00 | 20 | DS | 2-2 | 529261 464345 |
| 5 | ramyayalabolu123 r@gmail.com | Y.Ram ya | 21KP1 A44C8 | Y.Anjaia h | Y Laksh mi Rajya m | DS | 80. 00 | 19 | CSD | 2-2 | 724574 588425 |
| 4 | saidashaik371@g mail.com | SHAIK SAIDA ANWA R BASH A | 21KP1 A44A2 | SHAIK KUDHA N VALI | SHAIK SAIDA HUSS ANBI | DS | 80. 00 | 20 | DATAS CIENCE | 2-2 | 466722 650274 |
| 5 | chinnivignesh144 @gmail.com | chinni vignesh teja yadav | 21KP1 A44C6 | Chinni Pratap Kumar | Chinni Bharga vi | DS | 80. 00 | 19 | Data Science | 4th semest er | 639534 870436 |
| 3 6 | nikitharayapati9@ gmail.com | Nikhith a Rayapat i | 21KP1 A4487 | Rayapati hanumat hrao | Rayapa ti malles wari | DS | 80. 00 | 19 | Ds | 2-2 | 963360 828294 |
| 2 7 | ravuakshaya@gm ail.com | Ravu.ak shaya | 21KP1 A4485 | Ravu.sri nivasrao | Ravu.a runa kumari | DS | 80. 00 | 19 | Ds | 2.2 | 544305 783128 |
| 4 3 | paladugudurga1@ gmail.com | P. Durga Sri | 21KP1 A4473 | P. Amares wara rao | P. Seshu Kumari | DS | 80. 00 | 20 | CSD(Dat a Science) | 2-2 | 692162 661608 |
| 1 | adilakshmi4765@ gmail.com | N.Venk atesh | 21KP1 A4468 | N.Manik ya Rao | N.Sri Laksh mi | CSE | 83. 00 | 19 | CSE-DS | II-II | 602515 258256 |
| 5 0 | arundathi0508@g mail.com | PAND A UMA | 21KP1 A4474 | PANDA NARAY | PAND A | DS | 87. 00 | 19 | CSD | 2-2 | 652650 486629 |

13 34

| | Gmail | STUD ENT NAME ARUN DATHI | ROLL NUMB ER | FATHE R NAME ANA RAO | MOT HER NAME PRAS ANNA LAKS HMI | COU RSE | CG PA | A G E | BRANC H | SEMI STER | AADH AAR NO |
|-----|-----------------------------------|--------------------------------------|--------------------|-----------------------------------|---|------------|-----------|-------------|------------|--------------|-------------------|
| 4 8 | sriharshanallaboth u@gmail.com | Nallabo thu. Sri Harsha | 21KP1 A4469 | Nallabot hu. Anjaney ulu | Nallab othu. Anitha | DS | 90. 00 | 21 | CSD | 2-2 | 208611 060176 |

35

```
\begin{array}{l} \textbf{gr=df.groupby}(["AGE",'BRANCH'])\\ \textbf{gr.first}() \end{array}
```

OUTPUT:

| | Gmai1 | STUDENT NAME | ١ |
|----|-----------------------------------|-------------------------------|---|
| 0 | vennachandanal@gmail.com | Venna Chandana | |
| 4 | sivajibejjanki@gmail.com | B. sivaji | |
| 5 | ramyayalabolu123r@gmai1.com | Y. Ramya | |
| 6 | charithareddy3914@gmail.com | P.charitha reddy | |
| 7 | gayathripolepalli70@gmail.com | POLEPALLI. GAYATHRI | |
| 9 | sowjanyathotall@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 | anushayalabolu12@gmai1.com | Anusha yalabolu | |
| 23 | madhulathasure9@gmail.com | SURE. MADHULATHA | |
| 24 | thammisettysrikanthraj9@gmail.com | T. Srikanth | |
| 25 | shiakmobin2002@gmail.com | Shaikmobin | |
| 27 | ravuakshaya@gmail.com | Ravu. akshaya | |
| 29 | ynagasasikumar@gmail.com | Y Naga Sasi Kumar | |
| 30 | rahamtunnisashaik09@gmail.com | Shaik Rahamtunnisa | |
| 31 | harikabangaram313@gmai1.com | Harika | |
| 32 | indupriya72216@gmail.com | Indu Priya Patcha | |
| | | | |

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

3

OUTPUT:

Gmail

| | Jiliali | | STUDENT | INAME | |
|-----|---------|--------------------|---------------------------|-------------------------------|------------|
| 0 | | • | vennachandana1@gmail.cor | n Venna Chand | dana |
| 4 | | 9 | sivajibejjanki@gmail.com | B.sivaji | |
| 5 | | ram | yayalabolu123r@gmail.com | Y.R | amya |
| 6 | | | rithareddy3914@gmail.com | P.charitha reddy | |
| 7 | O: | | ripolepalli70@gmail.com | POLEPALLI. GAYAT | |
| 9 | 5 | • | owjanyathota11@gmail.com | | |
| | | 50 | • • | | |
| 10 | | | tammasahithi1@gmail.com | | |
| 11 | | | podilisarayu6@gmail.com | PODILI LAKSHMIS | |
| 12 | | | nikkarishma811@gmail.com | | |
| 13 | | | arvalaparla890@gmail.com | Venkata Aravind Kumar | r.V |
| 16 | | vai | nukuri.raghava@gmail.com | Ragh | ava |
| 17 | | | shaiksakina05@gmail.com | Shaik sam | eer |
| 18 | | | us465249@gmail.co | m S sk ı | ısman |
| 19 | | vallı | | Vallu Srinu Siva Subrahmanyam | 1 |
| 20 | undela | | draobulareddy@gmail.com | Undela Chandra Obula Redd | |
| 20 | anacia | Ciiaii | araobalareday @ ginam.com | Chach Chanara Obala Read | · <i>y</i> |
| | | | | | |
| | CGPA | 4 A(| GE. | BRANCH | SEMISTER \ |
| 0 | 8.00 | 19 | 32 | Data science | 2-2 |
| 4 | 0.72 | 23 | | Computer science | 2-2 |
| | | 19 | | | 2-2 |
| 5 | 80.00 | | | CSD | |
| 6 | 70.00 | 19 | | CSD | 2.2 |
| 7 | 10.00 | 19 | | Data Science | 2-2 |
| 9 | 8.00 | 19 | | DATA SCIENCE | 2-2 |
| 10 | 7.70 | 19 | | CSE (Data science) | 2-2 |
| 11 | 7.50 | 19 | | DATA SCIENCE | 2-2 |
| 12 | 9.00 | 19 | | ds | 2-2 |
| 13 | 0.98 | 20 | | Data Science | 2-2 |
| 16 | 7.00 | 19 | | Data science | 2-2 |
| 17 | 80.00 | 20 | | DS | 2-2 |
| 18 | 50.00 | 19 | | DS | 2-2 |
| 19 | 73.00 | 20 | Computer Science Engine | | 4 |
| 20 | 9.20 | 20 | computer science Engine | Computer Science | 2-2 |
| 21 | 0.70 | 19 | | DS | 2-2 |
| 21 | | | IAAR NO | DS | 2-2 |
| | | | | | |
| 0 | | | 22883 | | |
| 4 | | | 52410 | | |
| 5 | | | 88425 | | |
| 6 | | | 24502 | | |
| 7 | 7218 | 8191 | 58061 | | |
| 9 | 3386 | 56694 | 48901 | | |
| 10 | 6853 | 3498 | 32128 | | |
| 11 | 4586 | 58974 | 41091 | | |
| 12 | | | 21599 | | |
| 13 | | | 45824 | | |
| 16 | | | 81348 | | |
| 17 | | | 64345 | | |
| 1 / | 3494 | -01 4 (| UIJTJ | | |

STUDENT NAME \

```
18 568753875709
19 **********
20 693621780842
```

df.replace(['18h'],18,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 | sandeepyeruva1124@gmail.com | Yeruva sandeep reddy |
| 4 | sivajibejjanki@gmail.com | B.sivaji |
| 5 | ramyayalabolu123r@gmail.com | Y.Ramya |
| 6 | charithareddy3914@gmail.com | P.charitha reddy |
| 7 | gayathripolepalli70@gmail.com | POLEPALLI. GAYATHRI |
| 8 | syedtasleem07@gmail.com | Syed Tasleem Afroze |
| 9 | sowjanyathota11@gmail.com | T.SOWJANYA |
| 10 | tammasahithi1@gmail.com | Tamma Sahithi |
| 11 | podilisarayu6@gmail.com | PODILI LAKSHMISARAYU |
| 12 | shaikkarishma811@gmail.com | shaik karishma |
| 13 | kumarvalaparla890@gmail.com | Venkata Aravind Kumar.V |
| 14 | patchachinnu3@gmail.com | Patcha Jaswanth |
| 15 | manu952041@gmail.com | n 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 |
| | | |

| | COURSE CGPA | A 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 |

3

| ŀ | | | | | |
|---|----|------|-------|----|--|
| | 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 | 19 |
| | 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 |
| | | | | | |

 $\begin{array}{ll} gr_mech = & df.groupby('COURSE').get_group('MECH') \\ gr_mech \end{array}$

OUTPUT:

GmailSTUDENT NAMEROLL NUMBERFATHER NAMEMOTHER NAMECOURSECGPAAGEBRANCHSEMISTERAADHAAR NO2sravankumar7156@gmail.comSravan Kumar21KP1A4488Rama Chandra RaoVenkateswarammaMECH7.020mech49303190530888syedtasleem07@gmail.comSyed Tasleem Afroze21KP1A44A9Syed RahimanSyed NaseemaMECH8.019DS2-261702035479315manu952041@gmail.comPachipulusu Manohar21KP1A4472Pachipulusu PrasadPachipulusu BhavaniMECH8.519192-2559366114423

gr_cse=df.groupby('COURSE').get_group('CSE') gr_cse

| G ma il | STUDENT NAME | ROL L NUM BER | FATH ER NAM E | MOTHE R NAME | COU RSE | CG PA | A G E | BRA NCH | SEMI STER | AAD HAA R NO | |
|---------------|---------------------------------|------------------------------------|------------------------|----------------------------------|------------------------------|----------|---------------|------------|---------------------|--------------------|------------------|
| 1 | adilakshmi4765@gm ail.com | N.Ven katesh | 21KP1 A4468 | N.Manik ya Rao | N.Sri Laksh mi | CS E | 83 .0 0 | 19 | CSE- DS | II-II | 602515 258256 |
| 3 | sandeepyeruva1124@ gmail.com | Yeruv a sandee p reddy | 21KP1 A44D1 | Yeruva Ajay Kumar reddy | Yeruv a Anjali Devi | CS E | 9. 50 | 20 | CSE | 2-3 | 576154 990146 |
| 14 | patchachinnu3@gmai l.com | Patcha Jaswa nth | 21KP1 A4477 | Patcha apparao | Patcha sukany a | CS E | 0. 99 | 20 | Data scienc e | 2-2 | 744020 413963 |

| G ma il | STUDENT | NAME | ROL L NUM BER | FATH ER NAM E | MOTHE R NAME | COU RSE | CG PA | A G E | BRA NCH | SEMI STER | AAD HAA R NO | |
|---------------|---------------------------|-------------------|--|------------------------|------------------------------|---------------------------------------|----------|---------------|------------|-----------------------------|--------------------|------------------|
| 28 | hemasanjushas mu828@gm | | hema sanjus ha | 21KP1 A4491 | musalare ddy | sivapar vathi | CS E | 73 .0 0 | 18 | cse | 2-2 | 422314 863763 |
| 34 | sudhamshavejo gm | endla@ ail.com | Vejen dla Devi Sri Sudha msha | 21KP1 A44C4 | Vejendla Srinivass Rao | Vejend la Laxmi Prasan na | CS E | 70 .0 0 | 19 | Cse- Data Scienc e | 2_2 | 587480 445790 |
| 37 | indhupotla1230 | @gmail .com | indhu priya | 21KP1 A4483 | Lakshma narayana | Sujath a | CS E | 72 .0 0 | 19 | cse | 2-2 | 524345 891620 |
| 39 | jaffershaik7180 | @gmail .com | Jaffer shaik | 21KP1 A4495 | shaik.Lai Laha | shaik. Ramja n bee | CS E | 70 .0 0 | 19 | cse | 2nd | 912229 276699 |
| 47 | saisairam068@ | gmail. com | Saira m | 21kp1a 44b4 | Venkata subbiah | Ravan amma | CS E | 10 .0 0 | 19 | Da | 2-2 | 746109 575146 |
| | | | | | | | | | | | | |

age19=df.groupby('AGE').get_group(19) age19

OUTPUT:

| G m ail | STUDENT NAME | ROLL NUMBE R | FATH ER NAM E | MOTH ER NAME | COURSE | C GP A | A G E | BRA NC H | SEM ISTE R | AAD HAA R NO | |
|---------------|---------------------------------|--------------------|------------------------|--------------------------|--------------------------|--------------|---------------|----------------|---------------------|--------------------|----------------------|
| 0 | vennachandana1 @gmail.com | Venna Chandana | 21KP1 A44C 5 | Venna Ramana reddy | Venna Lakshmide vi | DS | 8. 00 | 19 | Data scienc e | 2-2 | 63633 69228 83 |
| 1 | adilakshmi4765@ gmail.com | N.Venkat esh | 21KP1 A4468 | N.Mani kya Rao | N.Sri Lakshmi | CS E | 83 .0 0 | 19 | CSE- DS | II-II | 60251 52582 56 |
| 5 | ramyayalabolu12 3r@gmail.com | Y.Ramya | 21KP1 A44C | Y.Anjai ah | Y Lakshmi Rajyam | DS | 80 .0 | 19 | CSD | 2-2 | 72457 45884 |
| | | | | | | | | | | | |

| STUDENT NAME | ROLL NUMBE R | FATH ER NAM E | MOTH ER NAME | COURSE | C GP A | A G E | BRA NC H | SEM ISTE R | AAD HAA R NO | |
|-----------------------------------|--|------------------------|---|--|---|---|--|---|--------------------|--|
| | | 8 | | | | 0 | | | | 25 |
| charithareddy391 4@gmail.com | P.charitha reddy | 21KP1 A4475 | P.Madh ava Reddy | P.Kavitha | DS | 70 .0 0 | 19 | CSD | 2.2 | 81017 75245 02 |
| gayathripolepalli7 0@gmail.com | POLEPA LLI. GAYATH RI | 21KP1 A4481 | POLEP ALLI. GURUB RAHM A CHARI | POLEPAL LI.SRIDE VI | DS | 10 .0 0 | 19 | Data Scien ce | 2-2 | 72181 91680 61 |
| syedtasleem07@g mail.com | Syed Tasleem Afroze | 21KP1 A44A 9 | Syed Rahima n | Syed Naseema | M EC H | 8. 00 | 19 | DS | 2-2 | 61702 03547 93 |
| sowjanyathota11 @gmail.com | T.SOWJA NYA | 21KP1 A44B 6 | T.SAM BA SIVA RAO | T.ARUNA KUMARI | DS | 8. 00 | 19 | DAT A SCIE NCE | 2-2 | 33866 69489 01 |
| tammasahithi1@g mail.com | Tamma Sahithi | 21KP1 A44B 0 | Tamma krishna reddy | Tamma Padmavath i | DS | 7. 70 | 19 | CSE (Data scienc e) | 2-2 | 68534 98321 28 |
| podilisarayu6@g mail.com | PODILI LAKSHM ISARAY U | 21KP1 A4480 | PODILI RAMES H | PODILI ADILAKS HMI | DS | 7. 50 | 19 | DAT A SCIE NCE | 2-2 | 45868 97410 91 |
| shaikkarishma811 @gmail.com | shaik karishma | 21KP1 A4496 | SHAIK BAJI | SHAIK KHADRU N | DS | 9. 00 | 19 | ds | 2-2 | 66304 85215 99 |
| manu952041@g mail.com | Pachipulu su Manohar | 21KP1 A4472 | Pachipul usu Prasad | Pachipulus u Bhavani | M EC H | 8. 50 | 19 | 19 | 2-2 | 55936 61144 23 |
| vanukuri.raghava @gmail.com | Raghava | 21KP1 A44C 3 | Srinivas a reddy | Jyothi | DS | 7. 00 | 19 | Data scienc e | 2-2 | 42497 30813 48 |
| us465249@gmail. | S sk usman | 21KP1 A4492 | S sk mastan vali | Mahabobb a | DS | 50 .0 0 | 19 | DS | 2-2 | 56875 38757 09 |
| | charithareddy391 4@gmail.com gayathripolepalli7 0@gmail.com syedtasleem07@g mail.com sowjanyathota11 @gmail.com tammasahithi1@g mail.com podilisarayu6@g mail.com shaikkarishma811 @gmail.com manu952041@g mail.com vanukuri.raghava @gmail.com us465249@gmail. | charithareddy391 | STUDENT NAME NUMBE R NAM E charithareddy391 | STUDENT NAME NAME ROLL NUMBE R NAME R NAME 8 charithareddy391 4@gmail.com PolePa gayathripolepalli7 0@gmail.com Syedtasleem07@g mail.com R Syed Tasleem A4481 R Syed A4481 R Siva R AO T SOWJA NYA R AC R AN B A SIVA R AO T Sahithi R Syed A4480 R R AHM B A Siva R AO Poblit LAKSHM LAKSHM L SHARY L SHARY A4480 R R AH Shaikkarishma811 R Shaik R Shaik R Shaikkarishma811 R Shaikkarishma811 R Shaikkarishma811 R Shaikkarishma811 R Shaikkarishma811 R Shaikkarishma811 R Shaik R SH | STUDENT NAME NUMBE NAME SER NAME Redy Redy Reddy P.charitha 21KP1 A4475 Reddy P.Kavitha Reddy POLEPA LLI. GHVB RAHM SIVB RAHM SIVB RAHM SIVB RAHM SIVB RAHM SIVB RAHM RAW P.Kavitha Reddy POLEPAL LLI. GHVB RAHM SIVB RAHM SIVB RAHM SIVB RAHM RAW P.Kavitha Reddy POLEPAL LLI. SINDER A448 RAHM RAHM SIVB RAHM SIVB RAHM RAW P.Kavitha Reddy POLEPAL LLI. SIVB RAHM RAHM SIVB RAHM RAHM RAHM RAHM RAW PODILI LAKSHM ISARAY A4480 RAHM PAdmavath reddy PoDILI LAKSHM ISARAY A4480 RAHM RAHM RAHM RAHM RAHM RAHM RAHM RAHM | STUDENT NAME NUMBE SAME SAME COURSE GA A SUMBLE STUDENT NAME SAME SAME SAME SAME SAME SAME SAME S | STUDENT NAME ROLL R NUMBE R NAM E NAME ER NAM E NAME NAME COURSE GP A E NAME A E NAME R NAME charithareddy391 4@gmail.com P.charitha 21KP1 reddy A4475 P.Madh ava Reddy P.Kavitha A2481 P.Kavitha P.Kavitha No 0 DS .0 0 gayathripolepalli7 0@gmail.com POLEPA LLL. 21KP1 GURUB A4481 POLEPAL GURUB RAHM AA CHARI POLEPAL LL.SRIDE GURUB RAHM AA CHARI POLEPAL LL.SRIDE GURUB RAHM AA CHARI POLEPAL LL.SRIDE Syed OLARITOR AA4481 Syed RAHM AA CHARI Syed Naseema EC 8. 00 sowjanyathota11 gmail.com T.SOWJA A448 A48 AA CHARI T.SAM BAA SIVA RAO TARUNA KUMARI DS 8. 00 tammasahithi1@g mail.com Tamma A44B A48 AA8 AA8 AA8 AA8 AA8 AA8 AA8 AA8 AA8 | STUDENT NAME ROLL NUMBE R ER AM E NAME R MOTH NAME NAME R COURSE GP G NA E NAME COURSE GP GA E NAME RE NAME COURSE GP GA E NAME NAME COURSE GP GA E NAME NAME RE NA | Name | STUDENT NAME SAM S |

| G m ail | STUDENT NAME | ROLL NUMBE R | FATH ER NAM E | MOTH ER NAME | COURSE | C GP A | A G E | BRA NC H | SEM ISTE R | AAD HAA R NO | |
|---------------|---|---------------------------------------|------------------------|-----------------------------------|-------------------------------|--------------|---------------|----------------|-----------------------------|--------------------|----------------------|
| 21 | farukh.786syed@ gmail.com | SYED.FA RUKH | 21KP1 A44A 7 | SYED.B AJI | SYED.SA RTHAJ BEGUM | DS | 0. 70 | 19 | DS | 2-2 | 76432 07306 78 |
| 22 | anushayalabolu12 @gmail.com | Anusha yalabolu | 21KP1 A44C 7 | Chinna anjayya | Lakshmi narayanam a | DS | 75 .0 0 | 19 | CSD | 2-2 | 83078 50660 37 |
| 24 | thammisettysrika nthraj9@gmail.co m | T.Srikanth | 21KP1 A44B 5 | T.vasu | T.jaya | DS | 0. 75 | 19 | Data Scien ce | 2-2 | 67311 22051 83 |
| 27 | ravuakshaya@gm ail.com | Ravu.aksh aya | 21KP1 A4485 | Ravu.sri nivasrao | Ravu.aruna kumari | DS | 80 .0 0 | 19 | Ds | 2.2 | 54430 57831 28 |
| 31 | harikabangaram3 13@gmail.com | Harika | 22KP5 A4401 | A.Subra manyam | A.Dhana Bhagyam | DS | 75 .0 0 | 19 | Data scienc e | 2-2 | 57493 05685 20 |
| 33 | bhavyasrisajja200 3@gmail.com | Bhavya sri | 21KP1 A4490 | Mohan krishna | Usha rani | DS | 70 .0 0 | 19 | Ds | 2-2 | 27473 68900 47 |
| 34 | sudhamshavejend la@gmail.com | Vejendla Devi Sri Sudhamsh a | 21KP1 A44C 4 | Vejendl a Srinivas s Rao | Vejendla Laxmi Prasanna | CS E | 70 .0 0 | 19 | Cse- Data Scien ce | 2_2 | 58748 04457 90 |

age20=df.groupby('AGE').get_group(20)

OUTPUT:

| G ma il | STUDENT NAME | ROL L NU MBE R | FATHE R NAME | MOTH ER NAME | COURSE | CG PA | A GE | BRA NCH | SEMI STER | AAD HAA R NO | |
|---------------|-------------------------------|----------------------------|--------------------|-------------------------|---------------------|----------|----------|------------|--------------|--------------------|------------------|
| 2 | sravankumar7156 @gmail.com | Srav an Kum ar | 21KP1 A4488 | Rama Chandr a Rao | Venkates waramma | ME CH | 7.0 0 | 20 | mech | 4 | 930319 053088 |

4

| G ma il | STUDENT NAME | ROL L NU MBE R | FATHE R NAME | MOTH ER NAME | COURSE | CG PA | A GE | BRA NCH | SEMI STER | AAD HAA R NO | |
|---------------|---------------------------------|---|--------------------|----------------------------------|--------------------------|----------|-----------|------------|---------------------|--------------------|------------------|
| 3 | sandeepyeruva11 24@gmail.com | Yeru va sand eep redd y | 21KP1 A44D1 | Yeruva Ajay Kumar reddy | Yeruva Anjali Devi | CS E | 9.5 0 | 20 | CSE | 2-3 | 576154 990146 |
| 13 | kumarvalaparla89 0@gmail.com | Venk ata Aravi nd Kum ar.V | 21KP1 A44C0 | Veeras wamy.v | Lakshmi.v | DS | 0.9 | 20 | Data Scien ce | 2-2 | 510305 345824 |
| 14 | patchachinnu3@ gmail.com | Patc ha Jasw anth | 21KP1 A4477 | Patcha appara o | Patcha sukanya | CS E | 0.9 | 20 | Data scien ce | 2-2 | 744020 413963 |
| 17 | shaiksakina05@g mail.com | Shaik same er | 21KP1 A44A3 | Shaik Rahim babu | Shaik Raziya | DS | 80. 00 | 20 | DS | 2-2 | 529261 464345 |
| 19 | vallu.srinu756939 @gmail.com | Vallu Srinu Siva Subr | | | | | | | | | |

 $\begin{array}{l} gr_ds = \!\! df.groupby('COURSE').get_group('DS') \\ gr_ds \end{array}$

OUTPUT:

- 4

| G m ail | STUDENT NAME | ROLL NUMBE R | FAT HER NAM E | MOTHER NAME | COURSE | C G P A | A G E | BR AN CH | SEMI STER | AAD HAA R NO | |
|---------------|-----------------------------------|---------------------------------|------------------------|---|---------------------------|------------------|---------------|----------------|------------------------------|-----------------------|----------------------|
| 0 | vennachandana1 @gmail.com | Venna Chandana | 21KP 1A44 C5 | Venna Ramanared dy | Venna Lakshmid evi | DS | 8. 00 | 19 | Data scienc e | 2-2 | 63633 69228 83 |
| 4 | sivajibejjanki@g mail.com | B.sivaji | 22kp5 a4402 | B.lakshmai ah | B.veramm a | DS | 0. 72 | 23 | Comp uter scienc e | 2-2 | 89544 46624 10 |
| 5 | ramyayalabolu12 3r@gmail.com | Y.Ramya | 21KP 1A44 C8 | Y.Anjaiah | Y Lakshmi Rajyam | DS | 80 .0 0 | 19 | CSD | 2-2 | 72457 45884 25 |
| 6 | charithareddy391 4@gmail.com | P.charitha reddy | 21KP 1A44 75 | P.Madhava Reddy | P.Kavitha | DS | 70 .0 0 | 19 | CSD | 2.2 | 81017 75245 02 |
| 7 | gayathripolepalli 70@gmail.com | POLEPA LLI. GAYAT HRI | 21KP 1A44 81 | POLEPAL LI. GURUBRA HMA CHARI | POLEPAL LI.SRIDE VI | DS | 10 .0 0 | 19 | Data Scien ce | 2-2 | 72181 91680 61 |
| 9 | sowjanyathota11 @gmail.com | T.SOWJ ANYA | 21KP 1A44 B6 | T.SAMBA SIVA RAO | T.ARUNA KUMARI | DS | 8. 00 | 19 | DAT A SCIE NCE | 2-2 | 33866 69489 01 |
| 10 | tammasahithi1@ gmail.com | Tamma Sahithi | 21KP 1A44 B0 | Tamma krishna reddy | Tamma Padmavat hi | DS | 7. 70 | 19 | CSE (Data scienc e) | 2-2 | 68534 98321 28 |
| 11 | podilisarayu6@g mail.com | PODILI LAKSH MISARA YU | 21KP 1A44 80 | PODILI RAMESH | PODILI ADILAKS HMI | DS | 7. 50 | 19 | DAT A SCIE NCE | 2-2 | 45868 97410 91 |
| 12 | shaikkarishma81 1@gmail.com | shaik karishma | 21KP 1A44 96 | SHAIK BAJI | SHAIK KHADRU N | DS | 9. 00 | 19 | ds | 2-2 | 66304 85215 99 |
| 13 | kumarvalaparla8 90@gmail.com | Venkata Aravind Kumar.V | 21KP 1A44 C0 | Veeraswam y.v | Lakshmi.v | DS | 0. 98 | 20 | Data Scien ce | 2-2 | 51030 53458 24 |
| 16 | vanukuri.raghava | Raghava | 21KP | Srinivasa | Jyothi | DS | 7. | 19 | Data | 2-2 | 42497 |

| G m ail | STUDENT NAME | ROLL NUMBE R | FAT HER NAM E | MOTHER NAME | COURSE | C G P A | A G E | BR AN CH | SEMI STER | AAD HAA R NO | |
|---------------|---|--|------------------------|------------------------------------|---------------------------|------------------|---------------|----------------|--|-----------------------|----------------------|
| | @gmail.com | | 1A44 C3 | reddy | | | 00 | | scienc e | | 30813 48 |
| 17 | shaiksakina05@g mail.com | Shaik sameer | 21KP 1A44 A3 | Shaik Rahim babu | Shaik Raziya | DS | 80 .0 0 | 20 | DS | 2-2 | 52926 14643 45 |
| 18 | us465249@gmail .com | S sk usman | 21KP 1A44 92 | S sk mastan vali | Mahabobb a | DS | 50 .0 0 | 19 | DS | 2-2 | 56875 38757 09 |
| 19 | vallu.srinu75693 9@gmail.com | Vallu Srinu Siva Subrahm anyam | 21KP 1A44 C1 | Vallu Srinivasa Rao | Vallu Surya kumari | DS | 73 .0 0 | 20 | Comp uter Scien ce Engin eering & Data Scien ce | 4 | ***** ***** ** |
| 20 | undelachandraob ulareddy@gmail. com | Undela Chandra Obula Reddy | 21KP 1A44 B9 | Undela Chinna Obula Reddy | Undela GuruLaks hmi | DS | 9. 20 | 20 | Comp uter Scien ce | 2-2 | 69362 17808 42 |
| 21 | farukh.786syed@ gmail.com | SYED.F ARUKH | 21KP 1A44 A7 | SYED.BAJ I | SYED.SA RTHAJ BEGUM | DS | 0. 70 | 19 | DS | 2-2 | 76432 07306 78 |
| 22 | anushayalabolu1 2@gmail.com | Anusha yalabolu | 21KP 1A44 C7 | Chinna anjayya | Lakshmi narayanam a | DS | 75 .0 0 | 19 | CSD | 2-2 | 83078 50660 37 |
| 23 | madhulathasure9 @gmail.com | SURE. MADHU LATHA | 21KP 1A44 A4 | SURE.VIS WANADH AM | SURE.SAI LAKSHM I | DS | 10 .0 0 | 20 | Data scienc e | 2-2 | 77648 60626 08 |
| 24 | thammisettysrika nthraj9@gmail.c om | T.Srikant h | 21KP 1A44 B5 | T.vasu | T.jaya | DS | 0. 75 | 19 | Data Scien ce | 2-2 | 67311 22051 83 |
| 25 | shiakmobin2002 @gmail.com | Shaikmo bin | 21KP 1A44 97 | shaik karimullah | Shaik rihana | DS | 8. 80 | 21 | Ds | 2.2 | 90435 56564 68 |
| | | | | | | | | | | 31 | 4 ! |

| G m ail | STUDENT NAME | ROLL NUMBE R | FAT HER NAM E | MOTHER NAME | COURSE | C G P A | A G E | BR AN CH | SEMI STER | AAD HAA R NO | |
|---------------|-------------------------------------|--|------------------------|-----------------------------|------------------------|------------------|---------------|----------------|---------------------|-----------------------|----------------------|
| 27 | ravuakshaya@gm ail.com | Ravu.aks haya | 21KP 1A44 85 | Ravu.sriniv asrao | Ravu.arun a kumari | DS | 80 .0 0 | 19 | Ds | 2.2 | 54430 57831 28 |
| 29 | ynagasasikumar @gmail.com | Y Naga Sasi Kumar | 21KP 1A44 D0 | Y Rama mohanarao | Y Lalitha | DS | 9. 20 | 20 | 20 | 2-2 | 44817 24962 92 |
| 30 | rahamtunnisashai k09@gmail.com | Shaik Rahamtu nnisa | 21KP 1A44 A0 | Shaik.maha boobjani | Shaik.mun ni | DS | 8. 00 | 18 | Data scienc e | 2-2 | 40697 61693 51 |
| 31 | harikabangaram3 13@gmail.com | Harika | 22KP 5A44 01 | A.Subrama nyam | A.Dhana Bhagyam | DS | 75 .0 0 | 19 | Data scienc e | 2-2 | 57493 05685 20 |
| 32 | indupriya72216 @gmail.com | Indu Priya Patcha | 21KP 1A44 76 | Appa rao Patcha | Renuka Patcha | DS | 0. 75 | 18 | Data Scien ce | 2-2 | 57304 18809 49 |
| 33 | bhavyasrisajja20 03@gmail.com | Bhavya sri | 21KP 1A44 90 | Mohan krishna | Usha rani | DS | 70 .0 0 | 19 | Ds | 2-2 | 27473 68900 47 |
| 35 | bhanuthanirru@g mail.com | Thanirru Bhanu venkata prasad | 21KP 1A44 B2 | T sathyanaray ana | T rama devi | DS | 9. 60 | 19 | 19 | 2-2 | 35722 82028 35 |
| 36 | nikitharayapati9 @gmail.com | Nikhitha Rayapati | 21KP 1A44 87 | Rayapati hanumathra o | Rayapati malleswari | DS | .0 .0 | 19 | Ds | 2-2 | 96336 08282 94 |
| 38 | abdulabdul22070 @gmail.com | Syed.Abd ul Rehaman | 21KP 1A44 A6 | Syed.Meera Sharif | Bandi.Kris hna veni | DS | 90 .0 0 | 20 | DS | 2-2 | 34785 35099 74 |
| 40 | rabbanishaik7356 @gmail.com | SHAIK RABBA NI | 21KP 1A44 99 | SHAIK MOHAMM AD HANIF | SHAIK MALIN | DS | 9. 50 | 21 | CSD | 2-2 | 20593 39562 04 |
| 41 | reshmayalamanc hi@gmail.com | Reshma yalamanc hi | 21KP 1A44 C9 | Yalamanchi subba Rao | Yalamanc hi sunitha | DS | 75 .0 0 | 19 | DS | 4 | 74236 63163 53 |
| 42 | thiriveedhinagajy othi@gmail.com | T. Nagajyot | 21KP 1A44 | T. Venkayya | T. Ramanjam | DS | 75 .0 | 19 | DS | 4 | 33047 71455 |

| G m ail | STUDENT NAME | ROLL NUMBE R | FAT HER NAM E | MOTHER NAME | COURSE | C G P A | A G E | BR AN CH | SEMI STER | AAD HAA R NO | |
|---------------|-----------------|--------------------|------------------------|----------------|--------|------------------|-------------|----------------|--------------|-----------------------|--|
| | | hi | В7 | | ma | | 0 | | | | |

age18=df.groupby('AGE').get_group(18) age18

OUTPUT:

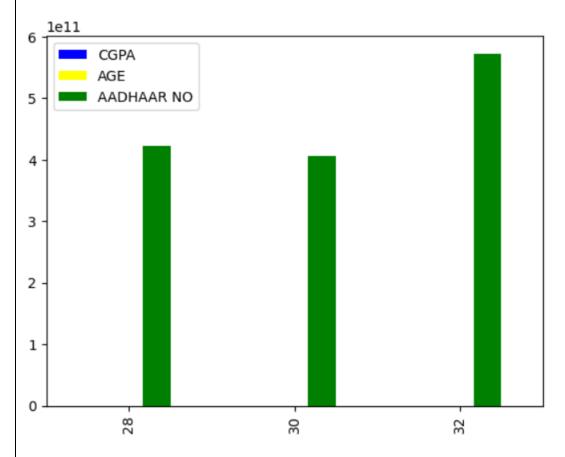
GmailSTUDENT NAMEROLL NUMBERFATHER NAMEMOTHER NAMECOURSECGPAAGEBRANCHSEMISTERAADHAAR NO28hemasanjushasanikommu828@gmail.comhema sanjusha21KP1A4491musalareddysivaparvathiCSE73.0018cse2-242231486376330rahamtunnisashaik09@gmail.comShaik Rahamtunnisa21KP1A44A0Shaik.mahaboobjaniShaik.munniDS8.0018Data science2-240697616935132indupriya72216@gmail.comIndu Priya Patcha21KP1A4476Appa rao PatchaRenuka PatchaDS0.7518Data Science2-2573041880949

age18.plot.bar(color=['blue','yellow','green'])
age18

OUTPUT:

| Gmai 1 | STUDENT NAME | ROLL NUMBER | FATHER NAME | MOTHER NAME | COURSE | CGP A | AGE | BRANC H | SEMISTE R | AADHAA R NO | |
|-----------|--|---------------------------|----------------|---------------------|------------------|----------|------------|------------|-----------------|----------------|------------------|
| 28 | hemasanjushasanikommu828@gmail.c om | hema sanjusha | 21KP1A449 1 | musalareddy | sivaparvath i | CSE | 73. 0 0 | 18 | cse | 2-2 | 42231486376 |
| 30 | rahamtunnisashaik09@gmail.com | Shaik Rahamtunnis a | 21KP1A44A 0 | Shaik.mahaboobjan i | Shaik.munni | DS | 8.00 | 18 | Data science | 2-2 | 40697616935 1 |
| 32 | indupriya72216@gmail.com | Indu Priya Patcha | 21KP1A447 6 | Appa rao Patcha | Renuka Patcha | DS | 0. 75 | 18 | Data Science | 2-2 | 57304188094 9 |
| - | . 58 | | 30 | | 32 . | | | | | | |

31



BAR GRAPH:

Here we are plotting a bar graph by using some colors like blue, yellow, red. By using these colors we are plotting a bar graph by using the data.

4

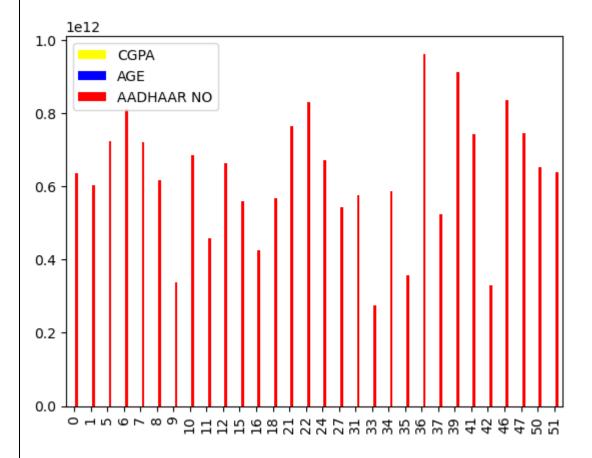
age19.plot.bar(color=['yellow','blue','red'])
age19

OUTPUT:

| G m ail | STUDENT NAME | ROLL NUMBE R | FATH ER NAM E | MOTH ER NAME | COURSE | C GP A | A G E | BRA NC H | SEM ISTE R | AAD HAA R NO | |
|---------------|-----------------------------------|--------------------------------|------------------------|---|---------------------------|--------------|---------------|----------------|------------------------------|--------------------|----------------------|
| 0 | vennachandana1 @gmail.com | Venna Chandana | 21KP1 A44C 5 | Venna Ramana reddy | Venna Lakshmide vi | DS | 8. 00 | 19 | Data scienc e | 2-2 | 63633 69228 83 |
| 1 | adilakshmi4765@ gmail.com | N.Venkat esh | 21KP1 A4468 | N.Mani kya Rao | N.Sri Lakshmi | CS E | 83 .0 0 | 19 | CSE- DS | II-II | 60251 52582 56 |
| 5 | ramyayalabolu12 3r@gmail.com | Y.Ramya | 21KP1 A44C 8 | Y.Anjai ah | Y Lakshmi Rajyam | DS | 80 .0 0 | 19 | CSD | 2-2 | 72457 45884 25 |
| 6 | charithareddy391 4@gmail.com | P.charitha reddy | 21KP1 A4475 | P.Madh ava Reddy | P.Kavitha | DS | 70 .0 0 | 19 | CSD | 2.2 | 81017 75245 02 |
| 7 | gayathripolepalli7 0@gmail.com | POLEPA LLI. GAYATH RI | 21KP1 A4481 | POLEP ALLI. GURUB RAHM A CHARI | POLEPAL LI.SRIDE VI | DS | 10 .0 0 | 19 | Data Scien ce | 2-2 | 72181 91680 61 |
| 8 | syedtasleem07@g mail.com | Syed Tasleem Afroze | 21KP1 A44A 9 | Syed Rahima n | Syed Naseema | M EC H | 8. 00 | 19 | DS | 2-2 | 61702 03547 93 |
| 9 | sowjanyathota11 @gmail.com | T.SOWJA NYA | 21KP1 A44B 6 | T.SAM BA SIVA RAO | T.ARUNA KUMARI | DS | 8. 00 | 19 | DAT A SCIE NCE | 2-2 | 33866 69489 01 |
| 10 | tammasahithi1@g mail.com | Tamma Sahithi | 21KP1 A44B 0 | Tamma krishna reddy | Tamma Padmavath i | DS | 7. 70 | 19 | CSE (Data scienc e) | 2-2 | 68534 98321 28 |
| | | | | | | | | | | | |

| G m ail | STUDENT NAME | ROLL NUMBE R | FATH ER NAM E | MOTH ER NAME | COURSE | C GP A | A G E | BRA NC H | SEM ISTE R | AAD HAA R NO | |
|---------------|---|---------------------------------|------------------------|---------------------------|---------------------------|--------------|---------------|----------------|-------------------------|--------------------|----------------------|
| 11 | podilisarayu6@g mail.com | PODILI LAKSHM ISARAY U | 21KP1 A4480 | PODILI RAMES H | PODILI ADILAKS HMI | DS | 7. 50 | 19 | DAT A SCIE NCE | 2-2 | 45868 97410 91 |
| 12 | shaikkarishma811 @gmail.com | shaik karishma | 21KP1 A4496 | SHAIK BAJI | SHAIK KHADRU N | DS | 9. 00 | 19 | ds | 2-2 | 66304 85215 99 |
| 15 | manu952041@g mail.com | Pachipulu su Manohar | 21KP1 A4472 | Pachipul usu Prasad | Pachipulus u Bhavani | M EC H | 8. 50 | 19 | 19 | 2-2 | 55936 61144 23 |
| 16 | vanukuri.raghava @gmail.com | Raghava | 21KP1 A44C 3 | Srinivas a reddy | Jyothi | DS | 7. 00 | 19 | Data scienc e | 2-2 | 42497 30813 48 |
| 18 | us465249@gmail. com | S sk usman | 21KP1 A4492 | S sk mastan vali | Mahabobb a | DS | 50 .0 0 | 19 | DS | 2-2 | 56875 38757 09 |
| 21 | farukh.786syed@ gmail.com | SYED.FA RUKH | 21KP1 A44A 7 | SYED.B AJI | SYED.SA RTHAJ BEGUM | DS | 0. 70 | 19 | DS | 2-2 | 76432 07306 78 |
| 22 | anushayalabolu12 @gmail.com | Anusha yalabolu | 21KP1 A44C 7 | Chinna anjayya | Lakshmi narayanam a | DS | 75 .0 0 | 19 | CSD | 2-2 | 83078 50660 37 |
| 24 | thammisettysrika nthraj9@gmail.co m | T.Srikanth | 21KP1 A44B 5 | T.vasu | T.jaya | DS | 0. 75 | 19 | Data Scien ce | 2-2 | 67311 22051 83 |
| 27 | ravuakshaya@gm ail.com | Ravu.aksh aya | 21KP1 A4485 | Ravu.sri nivasrao | Ravu.aruna kumari | DS | 80 .0 0 | 19 | Ds | 2.2 | 54430 57831 28 |
| 31 | harikabangaram3 13@gmail.com | Harika | 22KP5 A4401 | A.Subra manyam | A.Dhana Bhagyam | DS | 75 .0 0 | 19 | Data scienc e | 2-2 | 57493 05685 20 |
| 33 | bhavyasrisajja200 3@gmail.com | Bhavya sri | 21KP1 A4490 | Mohan krishna | Usha rani | DS | 70 .0 0 | 19 | Ds | 2-2 | 27473 68900 47 |
| | | | | | | | | | | | |

VISUALIZING THE BAR GRAPH OF AGE OF 20:



BAR GRAPH:

Here we are plotting a bar graph by using some colors like red, green, blue. By using these colors we are plotting a bar graph by using the data.

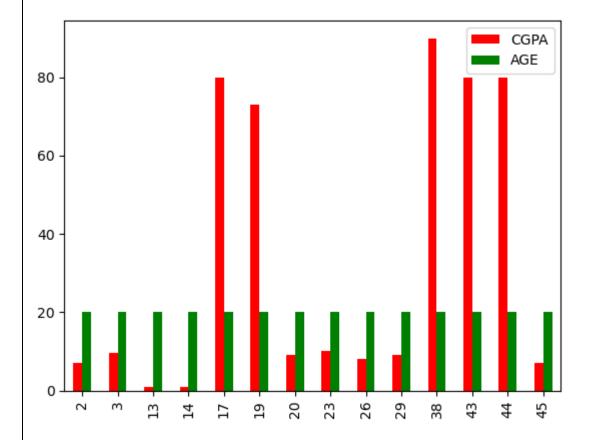
age20.plot.bar(color=['red','green','blue'])
age20

OUTPUT:

| 2 sravankumar/156 gmail.com Kumar 1 3 sandeepyeruva11 24@gmail.com Yeruva sandeep reddy 13 kumarvalaparla89 Venkata Aravind O@gmail.com Kumar. V 14 patchachinnu3@g mail.com Patcha Jaswant h 17 shaiksakina05@g Shaik sameer Vallu Srinu Vallu Srinu Vallu Srinu Siva | 21KP 1A448 8 21KP 1A44 D1 21KP 1A44 C0 21KP 1A447 7 21KP 1A44 | Rama Chandra Rao Yeruva Ajay Kumar reddy Veeraswam y.v Patcha apparao | Venkate swaram ma Yeruva Anjali Devi Lakshmi .v | M EC H CS E DS | 7. 00 9. 50 0. 98 | 20 20 20 20 | mech CSE Data Science Data science | 2-3 2-2 2-2 | 93031 90530 88 57615 49901 46 51030 53458 24 74402 04139 |
|---|--|--|--|-------------------------------|----------------------------------|----------------------|--|-------------------|--|
| 3 sandeepyeruvall sandeep reddy 13 kumarvalaparla89 Venkata Aravind O@gmail.com Kumar. V 14 patchachinnu3@g mail.com Patcha Jaswant h 17 shaiksakina05@g Shaik sameer Vallu Srinu Srinu Vallu Srinu Siva | 1A44 D1 21KP 1A44 C0 21KP 1A447 7 | Ajay Kumar reddy Veeraswam y.v Patcha apparao | Anjali Devi Lakshmi .v | E DS CS | 0. 98 | 20 | Data Science | 2-2 | 49901 46 51030 53458 24 74402 04139 |
| 13 kumarvalaparla89 Aravind 0@gmail.com Kumar. V 14 patchachinnu3@g mail.com Patcha Jaswant h 17 shaiksakina05@g mail.com Shaik sameer Vallu Srinu Srinu vallu.srinu756939 Siva | 1A44 C0 21KP 1A447 7 21KP | y.v Patcha apparao | .v Patcha | CS | 98 0. | | Science Data | | 53458 24 74402 04139 |
| 14 patchachinnu3@g mail.com Jaswant 1 h 17 shaiksakina05@g Shaik mail.com sameer Vallu Srinu Srinu vallu.srinu756939 Siva | 1A447 7 21KP | apparao | | | | 20 | | 2-2 | 04139 |
| 17 shaiksakina05@g Shaik mail.com sameer Vallu Srinu vallu.srinu756939 Siva | | G1 11 | | | | | | | 63 |
| Srinu vallu.srinu756939 Siva | A3 | Shaik Rahim babu | Shaik Raziya | DS | 80 .0 0 | 20 | DS | 2-2 | 52926 14643 45 |
| @gmail.com Subrah manya m | 21KP 1A44 C1 | Vallu Srinivasa Rao | Vallu Surya kumari | DS | 73 .0 0 | 20 | Comput er Science Enginee ring& Data Science | 4 | ***** ***** ** |
| undelachandraobu Undela Chandra Obula m Reddy | 21KP 1A44 B9 | Undela Chinna Obula Reddy | Undela GuruLak shmi | DS | 9. 20 | 20 | Comput er Science | 2-2 | 69362 17808 42 |
| madhiilathaciireU | 21KP 1A44 A4 | SURE.VIS WANADH AM | SURE.S AI LAKSH | DS | 10 .0 0 | 20 | Data science | 2-2 | 77648 60626 08 |

| G m ail | STUDENT NAME | ROLL NUMB ER | FAT HER NAM E | MOTHER NAME | COURS E MI | C G PA | A G E | BR AN CH | SEMIS TER | AAD HAA R NO | |
|---------------|-------------------------------|--------------------------------------|------------------------|-------------------------|--------------------------------|--------------|---------------|----------------|-------------------------|-----------------------|----------------------|
| 26 | abdulkhadar6842 @gmail.com | Shaik.A bdul Khadar | 21KP 1A449 3 | Shaik.Karee m | Shaik.Fa rjana | EC E | 8. 00 | 20 | 20 | 2-2 | 33470 82891 54 |
| 29 | ynagasasikumar@ gmail.com | Y Naga Sasi Kumar | 21KP 1A44 D0 | Y Rama mohanarao | Y Lalitha | DS | 9. 20 | 20 | 20 | 2-2 | 44817 24962 92 |
| 38 | abdulabdul22070 @gmail.com | Syed.A bdul Rehama n | 21KP 1A44 A6 | Syed.Meera Sharif | Bandi.K rishna veni | DS | 90 .0 0 | 20 | DS | 2-2 | 34785 35099 74 |
| 43 | paladugudurga1@ gmail.com | P. Durga Sri | 21KP 1A447 3 | P. Amareswara rao | P. Seshu Kumari | DS | 80 .0 0 | 20 | CSD(D ata Science | 2-2 | 69216 26616 08 |
| 44 | saidashaik371@g mail.com | SHAIK SAIDA ANWA R BASHA | 21KP 1A44 A2 | SHAIK KUDHAN VALI | SHAIK SAIDA HUSSA NBI | DS | 80 .0 0 | 20 | DATA SCIEN CE | 2-2 | 46672 26502 74 |
| 55 5 | mvkbn1312@gm ail.com | R.M.V. K.Brah ma Naidu | 21KP 1A448 9 | Yedukondal u | Nirmala | DS | 7. 00 | 20 | Data science | 2-2 | 2387 7088 9424 |

VISUALIZING THE BAR GRAPH OF AGE AND CGPA:



BAR GRAPH:

Here we are plotting a bar graph by using some colors like purple, yellow, black. using these colors we are plotting a bar graph by using the data.

By

gr_ds.plot.bar(color=['yellow','red','blue']) gr_ds

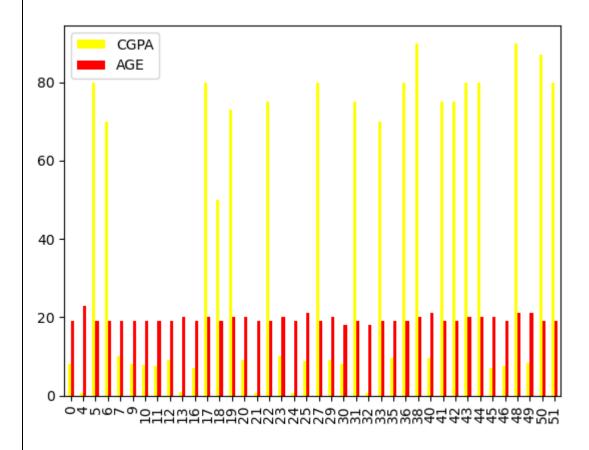
OUTPUT:

| G ma il | STUDENT NAME | ROLL NUMBE R | FATH ER NAM E | MOTH ER NAME | COURSE | C GP A | A G E | BRA NC H | SEMI STER | AAD HAA R NO | |
|---------------|-----------------------------------|--------------------------------|------------------------|---|---------------------------|--------------|---------------|----------------|------------------------------|--------------------|------------------|
| 0 | vennachandana 1@gmail.com | Venna Chandana | 21KP1 A44C 5 | Venna Ramanar eddy | Venna Lakshmide vi | DS | 8. 00 | 19 | Data scienc e | 2-2 | 636336 922883 |
| 4 | sivajibejjanki@ gmail.com | B.sivaji | 22kp5 a4402 | B.laksh maiah | B.veramma | DS | 0. 72 | 23 | Comp uter scienc e | 2-2 | 895444 662410 |
| 5 | ramyayalabolu1 23r@gmail.com | Y.Ramya | 21KP1 A44C 8 | Y.Anjai ah | Y Lakshmi Rajyam | DS | 80 .0 0 | 19 | CSD | 2-2 | 724574 588425 |
| 6 | charithareddy39 14@gmail.com | P.charitha reddy | 21KP1 A4475 | P.Madha va Reddy | P.Kavitha | DS | 70 .0 0 | 19 | CSD | 2.2 | 810177 524502 |
| 7 | gayathripolepall i70@gmail.com | POLEPA LLI. GAYATH RI | 21KP1 A4481 | POLEP ALLI. GURUB RAHM A CHARI | POLEPAL LI.SRIDE VI | DS | 10 .0 0 | 19 | Data Scienc e | 2-2 | 721819 168061 |
| 9 | sowjanyathota1 1@gmail.com | T.SOWJA NYA | 21KP1 A44B 6 | T.SAM BA SIVA RAO | T.ARUNA KUMARI | DS | 8. 00 | 19 | DATA SCIE NCE | 2-2 | 338666 948901 |
| 10 | tammasahithi1 @gmail.com | Tamma Sahithi | 21KP1 A44B 0 | Tamma krishna reddy | Tamma Padmavathi | DS | 7. 70 | 19 | CSE (Data scienc e) | 2-2 | 685349 832128 |

| G ma il | STUDENT NAME | ROLL NUMBE R | FATH ER NAM E | MOTH ER NAME | COURSE | C GP A | A G E | BRA NC H | SEMI STER | AAD HAA R NO | |
|---------------|-------------------------------------|---|------------------------|----------------------------|--------------------------|--------------|---------------|----------------|--|--------------------|------------------|
| 11 | podilisarayu6@ gmail.com | PODILI LAKSHM ISARAY U | 21KP1 A4480 | PODILI RAMES H | PODILI ADILAKS HMI | DS | 7. 50 | 19 | DATA SCIE NCE | 2-2 | 458689 741091 |
| 12 | shaikkarishma8 11@gmail.com | shaik karishma | 21KP1 A4496 | SHAIK BAJI | SHAIK KHADRU N | DS | 9. 00 | 19 | ds | 2-2 | 663048 521599 |
| 13 | kumarvalaparla 890@gmail.co m | Venkata Aravind Kumar.V | 21KP1 A44C 0 | Veerasw amy.v | Lakshmi.v | DS | 0. 98 | 20 | Data Scienc e | 2-2 | 510305 345824 |
| 16 | vanukuri.ragha va@gmail.com | Raghava | 21KP1 A44C 3 | Srinivas a reddy | Jyothi | DS | 7. 00 | 19 | Data scienc e | 2-2 | 424973 081348 |
| 17 | shaiksakina05 @gmail.com | Shaik sameer | 21KP1 A44A 3 | Shaik Rahim babu | Shaik Raziya | DS | 80 .0 0 | 20 | DS | 2-2 | 529261 464345 |
| 18 | us465249@gm ail.com | S sk usman | 21KP1 A4492 | S sk mastan vali | Mahabobba | DS | 50 .0 0 | 19 | DS | 2-2 | 568753 875709 |
| 19 | vallu.srinu7569 39@gmail.com | Vallu Srinu Siva Subrahma nyam | 21KP1 A44C 1 | Vallu Srinivas a Rao | Vallu Surya kumari | DS | 73 .0 0 | 20 | Comp uter Scienc e Engine ering& Data Scienc e | 4 | ***** ***** |

32 56

VISUALIZING THE BAR GRAPH OF DS STUDENTS:



In [77]:

BAR GRAPH:

Here we are plotting a bar graph by using the same data. By using these data we are plotting a graph for CSE students.

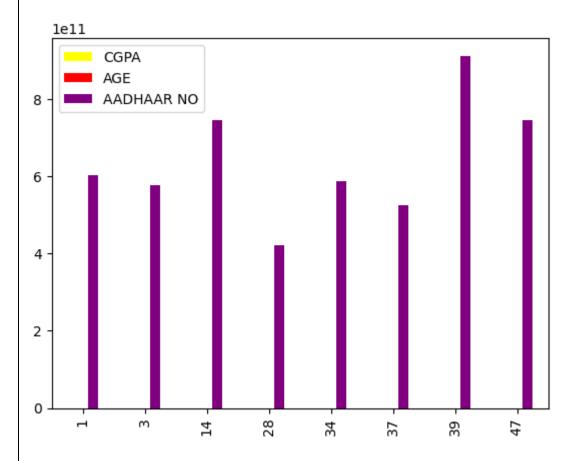
5

gr_cse.plot.bar(color=['yellow','red','purple'])
gr_cse

OUTPUT:

| G ma il | STUDENT NAME | ROL L NUM BER | FATH ER NAM E | MOTHE R NAME | COU RSE | CG PA | A G E | BRA NCH | SEMI STER | AAD HAA R NO | |
|---------------|--|--|------------------------|----------------------------------|---------------------------------------|----------|---------------|------------|-----------------------------|--------------------|------------------|
| 1 | adilakshmi4765@gm ail.com | N.Ven katesh | 21KP1 A4468 | N.Manik ya Rao | N.Sri Laksh mi | CS E | 83 .0 0 | 19 | CSE- DS | II-II | 602515 258256 |
| 3 | sandeepyeruva1124@ gmail.com | Yeruv a sandee p reddy | 21KP1 A44D1 | Yeruva Ajay Kumar reddy | Yeruv a Anjali Devi | CS E | 9. 50 | 20 | CSE | 2-3 | 576154 990146 |
| 14 | patchachinnu3@gmai l.com | Patcha Jaswa nth | 21KP1 A4477 | Patcha apparao | Patcha sukany a | CS E | 0. 99 | 20 | Data scienc e | 2-2 | 744020 413963 |
| 28 | hemasanjushasanikom mu828@gmail.com | hema sanjus ha | 21KP1 A4491 | musalare ddy | sivapar vathi | CS E | 73 .0 0 | 18 | cse | 2-2 | 422314 863763 |
| 34 | sudhamshavejendla@ gmail.com | Vejen dla Devi Sri Sudha msha | 21KP1 A44C4 | Vejendla Srinivass Rao | Vejend la Laxmi Prasan na | CS E | 70 .0 0 | 19 | Cse- Data Scienc e | 2_2 | 587480 445790 |
| 37 | indhupotla123@gmail .com | indhu priya | 21KP1 A4483 | Lakshma narayana | Sujath a | CS E | 72 .0 0 | 19 | cse | 2-2 | 524345 891620 |
| 39 | jaffershaik718@gmail .com | Jaffer shaik | 21KP1 A4495 | shaik.Lai Laha | shaik. Ramja n bee | CS E | 70 .0 0 | 19 | cse | 2nd | 912229 276699 |
| 47 | saisairam068@gmail. com | Saira m | 21kp1a 44b4 | Venkata subbiah | Ravan amma | CS E | 10 .0 0 | 19 | Da | 2-2 | 746109 575146 |

VISUALIZING THE BAR GRAPH OF CSE BRANCH:



BAR GRAPH:

Here we are plotting a bar graph by using some colors like purple, yellow, black. By using these colors we are plotting a bar graph by using the data.

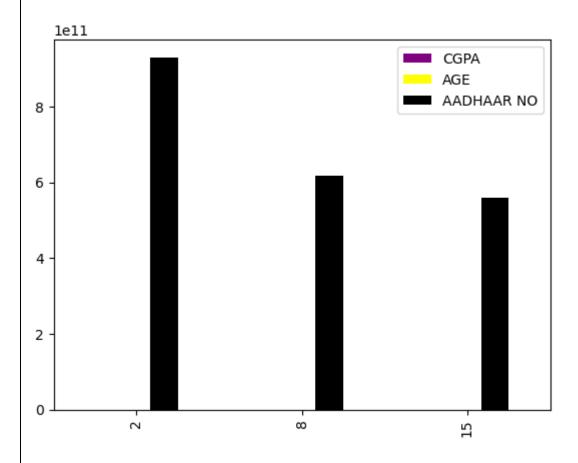
---5

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

OUTPUT:

| G ma il | STUDENT NAME | ROL L NUM BER | FATH ER NAME | MOT HER NAM E | COURSE | CG PA | A G E | BRA NCH | SEMI STER | AAD HAA R NO | |
|---------------|-------------------------------|--------------------------------|--------------------|---------------------------|-------------------------|----------|-------------|------------|--------------|--------------------|------------------|
| 2 | sravankumar715 6@gmail.com | Sravan Kumar | 21KP1 A4488 | Rama Chand ra Rao | Venkates waramma | ME CH | 7. 0 | 20 | mech | 4 | 930319 053088 |
| 8 | syedtasleem07@ gmail.com | Syed Taslee m Afroze | 21KP1 A44A9 | Syed Rahim an | Syed Naseema | ME CH | 8. 0 | 19 | DS | 2-2 | 617020 354793 |
| 15 | manu952041@g mail.com | Pachip ulusu Mano har | 21KP1 A4472 | Pachip ulusu Prasad | Pachipulus u Bhavani | ME CH | 8. 5 | 19 | 19 | 2-2 | 559366 114423 |

VISUALIZING THE BAR GRAPH OF MECH BRANCH:



y=age18.CGPA.value_counts() y

OUTPUT:

 $\begin{array}{ccc} 73.00 & 1 \\ 8.00 & 1 \\ 0.75 & 1 \end{array}$

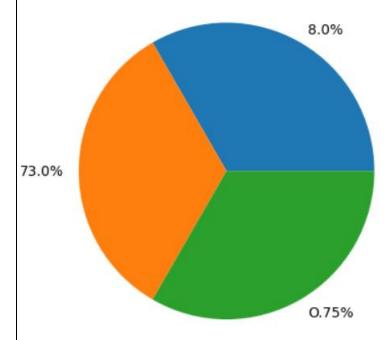
Name: CGPA, dtype: int64

PIE PLOT:

To plot a pie graph we use the command plt.pie. Then it uses the command and build the pie plot for the given data.

```
plt.pie(y,labels=['8.0%','73.0%','0.75%'])
plt.show()
```

OUTPUT:



 $age19p = age19.CGPA.value_counts() \\ age19p$

OUTPUT:

80.00 4 70.00 75.00 4 8.00 3 2 10.00 7.50 2 0.70 1 72.00 9.60 0.75 8.50 50.00 7.00 83.00 9.00 7.70 87.00 Name: CGPA, dtype: int64

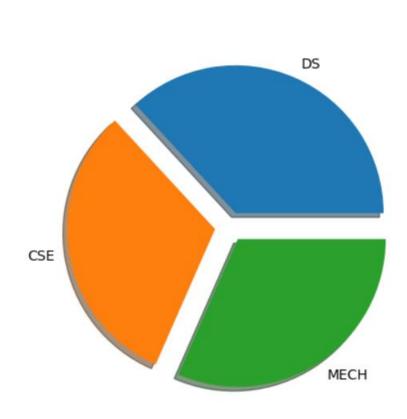
PIE PLOT:

Here we are plotting the pie plot of 3 labels I.e; DS,CSE,MECH. By using this I will plot the pie plot.

```
plt.pie(dsp[0:3],labels=['DS','CSE','MECH'],explode=[0.1,0.1,0.1],shadow =True)
plt.show()
```

OUTPUT:

6



SCATTER GRAPH AND LINE GRAPH:

Here we plotted a graph for the given data in scatter that means dotted graph and line graph which is represented by a line.

To plot a scatter graph we use the command plt.scatter then it shows the below graph.

To plot a line graph we use the command plt.plot then it shows the below graph.

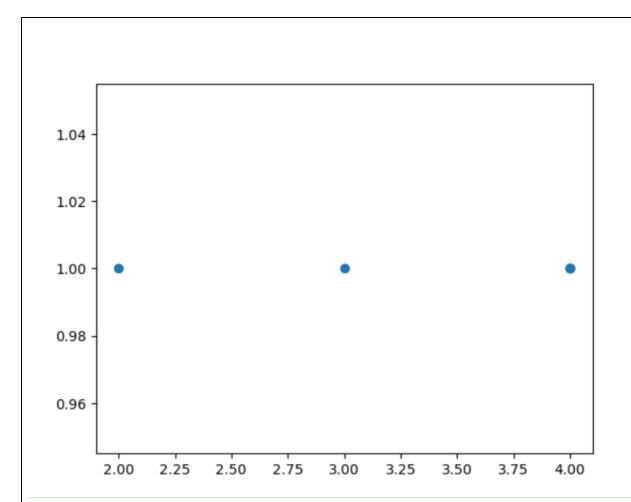
LINE GRAPH:

plt.plot(dsp.head())
plt.show()

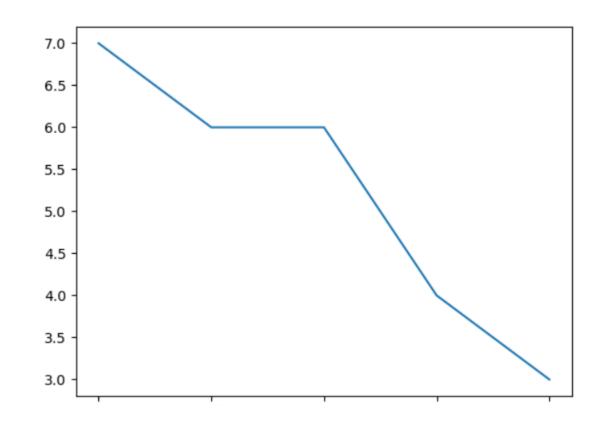
SCATTER GRAPH:

plt.scatter(age19p.head(),agep.tail())
plt.show()

VISUALIZING THE SCATTER PLOT OF AGE:



VISUALIZING THE LINE PLOT OF AGE:



RESULT:

- Data analysis summarizes collected data.
- It involves the interpretation of data gathered through the use of analytical and logical reasoning determine patterns, relation ships or trends.

OUTPUT:

Data output is the process and method by which data can be studied under different circumstances and manipulated as required by the researcher. Any statistical analysis produces an output data that needs to be studied.

0

SUMMARY

In this project, we aimed to develop a DATA ANALYIS 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.

PANDAS: Pandas provides functions to handle missing data, perform mathematical operations, and manipulate the data.

MATPLOTLIB: Matplotlib library is commonly used for plotting data points and creating interactive visualizations of the data.

NUMPY: Numpy can be used to perform a wide variety of mathematical operations on arrays.

Benefits:

- Improved data techniques, which can lead to understand the data easily.
- Improved graphs to visualize the data.
- Data analytics techniques enable a business to take raw data and uncover patterns to extract valuable insights.
- Easy memory management.