Importing Necessary Packages

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

Data Preprocessing

```
df=pd.read_csv(r"C:\Users\Arigala.Adarsh\Downloads\
Stress Analysis dataset.csv")
df.head()
                                    Email Address
            Timestamp
Name \
0 9/29/2023 16:29:24
                        pavankalyanc162@gmail.com
                                                              Pavan
Kalyan
1 9/29/2023 16:38:20
                         saadiyashaik13@gmail.com Shaik Haleema
saadiya
2 9/29/2023 16:52:51
                       swethapujari2003@gmail.com
Swetha
3 9/29/2023 16:56:30
                           arjaebenazer@gmail.com
Chandu
4 9/29/2023 16:57:54
                           r190411@rguktrkv.ac.in
G. Praharsha
                       Email \
   pavankalyanc162@gmail.com
1
    saadiyashaik13@gmail.com
2
      r190311@rguktrkv.ac.in
3
      r190266@rguktrkv.ac.in
      r190411@rguktrkv.ac.in
                                         College Name
                                                                 State
Gender \
                                     RGUKT RK-VALLEY Andhra Pradesh
Male
                                   Rgukt,r.k.valley
                                                       Andhra Pradesh
Female
                                      IIIT RK VALLEY
                                                                   NaN
Female
                                            RK Valley
                                                                   NaN
4 Rajiv Gandhi University of Knowledge Technolog...
                                                                   NaN
Female
```

```
Date of Birth Study Year \
0
     12/17/2003
                    Enng-3
1
      7/13/2003
                    Enng-3
2
                    Enng-3
      7/29/2004
3
      8/19/2004
                    Enng-3
      6/10/2004
                    Enng-3
 Which of the following sources of stress are most significant in
your life? (Select all that apply)
                        Family, Relationship, Health
1
                                            Acedamics
2
                                            Acedamics
            Work, Acedamics, Relationship, Financial
3
          Acedamics, Relationship, Financial, Health
   ... You feel, your life is sad, as there is no joy in your life
anymore
                                          Completely agree
  . . .
                                      Completely disagree
2 ...
                                       Completely disagree
                                      Completely disagree
3 ...
                                                   Neutral
 You have been very irritated and angry recently and having mood
swings
                                     Completely agree
1
                                              Neutral
2
                                              Neutral
3
                                              Neutral
                                              Neutral
  Little interest or pleasure in doing things, you enjoy or Feel to
have less interaction with Social network.
                                                  Yes
```

```
1
                                                  Yes
2
                                                  Yes
3
                                                  Yes
                                                  Yes
 Do you observed changes in food habits? \
0
1
                                       Yes
2
                                       Yes
3
                                        No
4
                                        No
 How often do you experience trouble sleeping \
0
                                      Frequently
1
                                          Rarely
2
                                           Never
3
                                           Never
4
                                          Rarely
   Do you often experience physical symptoms like headaches or muscle
tension when stressed?
                                           Frequently
1
                                        Occassionally
                                                Never
3
                                               Rarely
                                        Occassionally
                                  View of yourself? \
  You see yourself as equally worthwhile as others
  You see yourself as equally worthwhile as others
  You see yourself as equally worthwhile as others
  You see yourself as equally worthwhile as others
4 You see yourself as equally worthwhile as others
  Thoughts that you would be better off dead, or of hurting yourself
in some way?
                                     Completely agree
1
                                  Completely disagree
2
                                  Completely disagree
```

```
3
                                      Somewhat agree
                                      Somewhat agree
 How would you rate your overall stress level on a scale from 1 (low)
to 5 (high) [ Stress Level] \
                                                    5
1
                                                    1
2
                                                    3
                                                    2
                                                    3
 Overall, do you believe that stress significantly affects your daily
life and well-being?
                                  Yes, significantly
1
                                 Yes, to some extent
2
                                  Yes, significantly
3
                                      No, not at all
                                  Yes, significantly
[5 rows x 22 columns]
df.columns
Index(['Timestamp', 'Email Address', 'Name', 'Email', 'College Name',
'State'
       Gender', 'Date of Birth', 'Study Year',
       'Which of the following sources of stress are most significant
in your life? (Select all that apply) ',
       'Are you facing a lack of concentration. ',
       'Are you facing problems with making decisions ? ',
       'You feel, your life is sad, as there is no joy in your life
anymore ',
       'You have been very irritated and angry recently and having
mood swings ',
       'Little interest or pleasure in doing things, you enjoy or Feel
to have less interaction with Social network. ',
       'Do you observed changes in food habits?'
       'How often do you experience trouble sleeping ',
       ' Do you often experience physical symptoms like headaches or
```

```
muscle tension when stressed? ',
       'View of yourself?',
       'Thoughts that you would be better off dead, or of hurting
yourself in some way? ',
       'How would you rate your overall stress level on a scale from 1
(low) to 5 (high) [ Stress Level]',
       'Overall, do you believe that stress significantly affects your
daily life and well-being? '],
     dtype='object')
df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 617 entries, 0 to 616
Data columns (total 22 columns):
    Column
Non-Null Count Dtype
0 Timestamp
617 non-null
               object
1 Email Address
617 non-null object
2
     Name
617 non-null object
3
    Email
617 non-null
               object
4 College Name
617 non-null object
5
    State
563 non-null object
    Gender
617 non-null
               object
    Date of Birth
7
617 non-null
               object
    Study Year
8
617 non-null
               object
    Which of the following sources of stress are most significant in
your life? (Select all that apply)
                                             617 non-null object
10 Are you facing a lack of concentration.
617 non-null
               object
11 Are you facing problems with making decisions ?
617 non-null
               object
 12 You feel, your life is sad, as there is no joy in your life
                                                  617 non-null
anymore
object
13 You have been very irritated and angry recently and having mood
                                              617 non-null
                                                              object
swings
 14 Little interest or pleasure in doing things, you enjoy or Feel to
have less interaction with Social network. 617 non-null
```

```
Do you observed changes in food habits?
617 non-null
               object
16 How often do you experience trouble sleeping
617 non-null
               object
     Do you often experience physical symptoms like headaches or
                                                617 non-null
muscle tension when stressed?
object
18 View of yourself?
617 non-null
               object
19 Thoughts that you would be better off dead, or of hurting
yourself in some way?
                                                   617 non-null
object
20 How would you rate your overall stress level on a scale from 1
(low) to 5 (high) [ Stress Level]
                                              617 non-null
21 Overall, do you believe that stress significantly affects your
daily life and well-being?
                            617 non-null object
dtypes: int64(1), object(21)
memory usage: 106.2+ KB
df.dtypes
Timestamp
obiect
Email Address
object
Name
object
Email
obiect
College Name
object
State
object
Gender
object
Date of Birth
object
Study Year
obiect
Which of the following sources of stress are most significant in your
life? (Select all that apply)
                                         object
Are you facing a lack of concentration.
object
Are you facing problems with making decisions ?
You feel, your life is sad, as there is no joy in your life anymore
You have been very irritated and angry recently and having mood swings
object
Little interest or pleasure in doing things, you enjoy or Feel to have
```

```
less interaction with Social network.
                                          object
Do you observed changes in food habits?
object
How often do you experience trouble sleeping
object
Do you often experience physical symptoms like headaches or muscle
tension when stressed?
                                             object
View of yourself?
object
Thoughts that you would be better off dead, or of hurting yourself in
                                           object
some way?
How would you rate your overall stress level on a scale from 1 (low)
to 5 (high) [ Stress Level]
                                             int64
Overall, do you believe that stress significantly affects your daily
life and well-being?
                                            object
dtype: object
```

Exploratory Data Analysis

```
df.drop(['Timestamp','Email Address','College
Name','State'],axis=1,inplace=True)
df.head()
                                               Email Gender Date of
                     Name
Birth \
             Pavan Kalyan pavankalyanc162@gmail.com
                                                        Male
12/17/2003
1 Shaik Haleema saadiya
                            saadiyashaik13@gmail.com Female
7/13/2003
                   Swetha
                              r190311@rguktrkv.ac.in Female
7/29/2004
                   Chandu
                              r190266@rguktrkv.ac.in
                                                        Male
8/19/2004
              G.Praharsha
                              r190411@rguktrkv.ac.in Female
6/10/2004
  Study Year \
0
      Enng-3
1
      Enng-3
2
      Enng-3
3
      Enng-3
      Enng-3
 Which of the following sources of stress are most significant in
your life? (Select all that apply)
                        Family, Relationship, Health
```

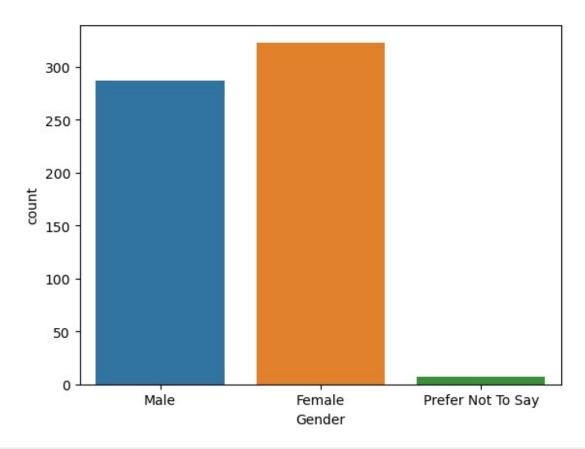
1	Acedamics
2	Acedamics
3	Work, Acedamics, Relationship, Financial
4 A	Acedamics, Relationship, Financial, Health
Are you f 0 1 2 3	Facing a lack of concentration. \ Completely agree Neutral Somewhat agree Somewhat agree Completely agree
Are you f 0 1 2 3	Facing problems with making decisions ? Completely agree Completely disagree Somewhat agree Completely agree Completely agree
You feel,	your life is sad, as there is no joy in your life anymore
0	Completely agree
1	Completely disagree
2	Completely disagree
3	Completely disagree
4	Neutral
You have swings \	been very irritated and angry recently and having mood Completely agree
1	Neutral
2	Neutral
3	Neutral
4	Neutral
	nterest or pleasure in doing things, you enjoy or Feel to Interaction with Social network. \

```
0
                                                  Yes
1
                                                  Yes
2
                                                  Yes
3
                                                  Yes
                                                  Yes
  Do you observed changes in food habits? \
                                        No
                                       Yes
1
2
                                       Yes
3
                                        No
4
                                        No
  How often do you experience trouble sleeping \
0
                                      Frequently
1
                                          Rarely
2
                                           Never
3
                                           Never
4
                                          Rarely
   Do you often experience physical symptoms like headaches or muscle
tension when stressed?
                                           Frequently
                                        Occassionally
2
                                                Never
3
                                               Rarely
                                        Occassionally
                                   View of yourself? \
 You see yourself as equally worthwhile as others
1 You see yourself as equally worthwhile as others
  You see yourself as equally worthwhile as others
  You see yourself as equally worthwhile as others
4 You see yourself as equally worthwhile as others
  Thoughts that you would be better off dead, or of hurting yourself
in some way?
                                     Completely agree
1
                                  Completely disagree
```

```
2
                                 Completely disagree
3
                                       Somewhat agree
                                      Somewhat agree
   How would you rate your overall stress level on a scale from 1
(low) to 5 (high) [ Stress Level] \
                                                    5
                                                    1
1
                                                    3
3
                                                    2
                                                    3
  Overall, do you believe that stress significantly affects your daily
life and well-being?
                                  Yes, significantly
1
                                 Yes, to some extent
2
                                  Yes, significantly
3
                                      No, not at all
                                  Yes, significantly
df.columns
Index([' Name', 'Email', 'Gender', 'Date of Birth', 'Study Year',
       'Which of the following sources of stress are most significant
in your life? (Select all that apply) ',
       'Are you facing a lack of concentration. ',
       'Are you facing problems with making decisions ? ',
       'You feel, your life is sad, as there is no joy in your life
anymore ',
       'You have been very irritated and angry recently and having
mood swings ',
       'Little interest or pleasure in doing things, you enjoy or Feel
to have less interaction with Social network. '
       'Do you observed changes in food habits?',
       'How often do you experience trouble sleeping ',
       ' Do you often experience physical symptoms like headaches or
muscle tension when stressed? ',
       'View of yourself?',
```

```
'Thoughts that you would be better off dead, or of hurting
yourself in some way? ',
       'How would you rate your overall stress level on a scale from 1
(low) to 5 (high) [ Stress Level]',
       'Overall, do you believe that stress significantly affects your
daily life and well-being? '],
     dtype='object')
df.shape
(617, 18)
df.isnull().sum()
Name
Email
Gender
Date of Birth
Study Year
Which of the following sources of stress are most significant in your
life? (Select all that apply)
Are you facing a lack of concentration.
Are you facing problems with making decisions ?
You feel, your life is sad, as there is no joy in your life anymore
You have been very irritated and angry recently and having mood swings
Little interest or pleasure in doing things, you enjoy or Feel to have
less interaction with Social network.
Do you observed changes in food habits?
How often do you experience trouble sleeping
Do you often experience physical symptoms like headaches or muscle
tension when stressed?
View of yourself?
Thoughts that you would be better off dead, or of hurting yourself in
some way?
How would you rate your overall stress level on a scale from 1 (low)
to 5 (high) [ Stress Level]
Overall, do you believe that stress significantly affects your daily
```

```
life and well-being?
dtype: int64
df.duplicated()
0
       False
1
       False
2
       False
3
       False
       False
       . . .
612
       False
613
       False
614
       False
       False
615
616
       False
Length: 617, dtype: bool
df.duplicated().sum()
0
df['Study Year'].unique()
array(['Enng-3', 'Degree-3', 'Enng-2', 'Inter Second Year/P2', 'Enng-
1',
       'Enng-4', 'Inter First Year/P1', 'Diploma-3', 'Degree-1',
       'Degree-2'], dtype=object)
df['Study Year'].nunique()
10
df.Gender.value counts()
Female
                     323
Male
                     287
Prefer Not To Say
Name: Gender, dtype: int64
sns.countplot(df.Gender)
plt.show()
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
_decorators.py:36: FutureWarning: Pass the following variable as a
keyword arg: x. From version 0.12, the only valid positional argument
will be `data`, and passing other arguments without an explicit
keyword will result in an error or misinterpretation.
  warnings.warn(
```



```
df["Date of Birth"].unique()
array(['12/17/2003', '7/13/2003', '7/29/2004', '8/19/2004',
'6/10/2004',
       '9/17/2003', '6/13/2004', '5/3/2004', '1/9/1999', '10/10/2002',
       '10/30/2004', '3/27/2004', '4/25/2004', '9/10/2003',
'6/22/2002',
       '6/5/2007', '12/16/2002', '5/30/2005', '4/24/2006',
'12/26/2003',
       '8/14/2003', '5/25/2004', '5/2/2002', '5/29/2003', '9/8/2023'
       '5/5/2004', '8/28/2008', '9/15/2023', '8/24/2003', '11/5/2003',
       '11/4/2003', '7/5/2004', '9/11/2023', '10/21/2003',
'7/28/2004',
       '12/11/2003', '7/6/2023', '12/3/2006', '9/29/2023',
'11/24/2003',
       '4/30/2003', '10/9/2003', '3/10/2004', '7/1/2023',
'11/26/2002',
       '4/24/2003', '11/22/2005', '6/30/2005', '9/22/2006',
'8/3/2004'
       '5/18/2004', '1/4/2004', '1/20/2002', '2/15/2005', '9/15/2003',
       '11/6/2002', '4/20/2000', '5/21/2003', '6/21/2004', '6/7/1999',
       '8/21/2003', '12/19/2001', '6/16/2003', '9/21/2002',
'9/29/2004',
       '5/17/2004', '2/28/2004', '9/12/2003', '7/21/2002', '8/2/2003',
```

```
'1/2/2004', '7/31/2003', '9/17/2004', '8/9/2004', '11/14/2003', '9/16/2004', '7/27/2005', '6/13/2005', '9/6/2002', '8/6/2003', '10/1/2004', '5/14/2000', '1/15/2004', '9/30/2023',
'8/10/2007',
         '1/24/2006', '12/6/2005', '12/4/2004', '10/16/2003',
'1/5/2004',
         '2/11/2004', '9/17/2005', '4/21/2004', '6/18/2005',
'11/3/2005',
         '6/6/2006', '7/19/2006', '12/3/2022', '6/22/2023', '2/15/2003', '5/2/2004', '11/9/2003', '5/22/2004', '8/13/2003', '5/31/2003', '8/2/2004', '11/24/2002', '2/14/2004', '4/3/2003', '1/16/2004', '3/16/2003', '3/28/2004', '6/8/2003', '4/16/2003', '3/24/2003',
         '11/23/2006', '5/14/2007', '12/15/2005', '6/2/2007',
'10/24/2006',
         '11/27/2006', '2/20/2008', '6/18/2007', '5/11/2007',
'9/25/2007'
         '12/15/2006', '8/5/2007', '7/19/2007', '7/8/2007', '1/14/2006',
         '1/7/2007', '8/27/2007', '12/2/2005', '11/9/2006', '3/31/2007',
         '9/24/2006', '11/4/2006', '8/10/2006', '7/10/2023',
'8/21/2007',
         '2/7/2007', '1/8/2006', '3/14/2007', '11/3/2006', '1/21/2007',
         '5/19/2006', '6/18/2006', '8/31/2006', '10/4/2006',
'12/30/2006',
         '4/20/2007', '10/6/2007', '5/26/2006', '7/1/2005', '10/4/2005',
         '1/25/2007', '12/11/2006', '4/6/2006', '7/21/2007',
'10/3/2023',
         '12/21/2006', '11/6/2005', '5/23/2007', '7/14/2007',
'7/16/2007',
         '9/18/2007', '5/28/2006', '6/10/2007', '1/3/2006',
'12/22/2004'
         '11/25/2005', '12/11/2005', '6/15/2005', '7/25/2004',
'3/7/2007',
         '11/18/2005', '2/1/2005', '12/28/2006', '10/2/2004',
'3/30/2005',
         '8/29/2004', '7/12/2005', '2/21/2007', '10/3/2004',
'10/3/2005',
         '9/4/2003', '6/22/2005', '8/18/2007', '4/2/2005', '1/12/2005', '7/26/2008', '7/9/2006', '9/30/2006', '7/6/2007', '12/21/2023'
         '6/25/2005', '9/3/2007', '1/11/2005', '5/21/2006', '3/28/2005',
         '8/6/2004', '11/29/2004', '12/1/2004', '8/11/2004',
'4/27/2005',
         '7/8/2004', '9/9/2003', '1/26/2005', '9/11/2003', '4/15/2005', '8/1/2007', '5/31/2005', '3/29/2004', '12/29/2004', '6/5/2004', '11/10/2004', '3/27/2005', '6/8/2005', '3/22/2004', '7/3/2005', '10/12/2003', '7/28/2005', '6/1/2005', '7/17/2005',
'12/14/2004',
         '6/14/2023', '7/16/2005', '1/27/2005', '4/3/2006', '5/13/2004',
         '3/5/2004', '11/13/2004', '9/29/2005', '3/6/2004', '3/1/2004', '6/26/2004', '9/2/2003', '7/21/2005', '9/14/2005', '3/17/2005',
```

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'12/6/2003', '6/18/2004', '7/26/2005', '4/17/2005',
'5/13/2003',
       '8/1/2005', '6/14/2005', '6/16/2005', '10/24/2004', '4/1/2003',
       '10/29/2005', '4/19/2004', '1/8/2004', '2/19/2005',
'9/12/2005',
       '8/11/2005', '7/11/2005', '8/23/2004', '1/24/2005',
'5/13/2005',
       '9/18/2004', '12/21/2004', '6/2/2004', '3/5/2007', '5/6/2005',
       '6/17/2006', '5/15/2004', '1/1/2004', '6/23/2007',
'12/19/2023',
       '9/29/2006', '2/7/2004', '1/1/2007', '9/7/2006', '2/3/2007', '5/7/2007', '8/14/2006', '10/20/2006', '6/3/2007', '7/10/2007',
       '9/10/2006', '11/16/2007', '8/1/2006', '9/20/2006'
'7/16/2023',
       '10/13/2006', '4/22/2007', '9/30/2005', '11/15/2006',
'3/6/2007',
       '10/12/2005', '1/30/2007', '9/13/2006', '2/16/2006',
'8/6/2007',
       '11/8/2006', '10/15/2023', '5/14/2005', '5/12/2007',
'8/12/2005',
       '11/2/2006', '1/18/2006', '8/9/2007', '12/4/2006', '11/2/2007',
       '8/26/2007', '8/18/2005', '11/12/2006', '5/15/2007',
'2/9/2007',
       '6/24/2006', '9/7/2007', '7/5/2007', '4/17/2006', '6/1/2007',
       '9/28/2006', '5/27/2006', '6/15/2007', '2/3/2004',
'11/16/2005',
       '6/19/2007', '3/2/2005', '4/21/2006', '10/29/2007',
'10/16/2006',
       '3/20/2007', '8/31/2007', '4/14/2007', '12/20/2004',
'2/12/2007'
       '9/25/2006', '7/7/2007', '2/5/2005', '5/24/2006', '8/13/2023',
       '1/23/2007', '7/29/2006', '5/8/2007', '4/15/2007',
'10/11/2006',
       '2/26/2006', '8/2/2007', '9/4/2006', '2/15/2007', '10/30/2006',
                   '1/6/2007', '2/1/2006', '10/7/2006', '1/13/2007',
       '5/25/2006',
       '12/6/2023', '12/14/2006', '2/22/2006', '12/6/2002',
'10/26/2004'
       '8/23/2005', '6/18/2001', '1/1/0000', '10/10/2005',
'10/5/2006',
       '2/24/2003', '7/15/2002', '8/22/2001', '8/22/2003', '9/1/2006',
       '5/24/2005', '6/12/2006', '12/19/2004', '5/5/2001',
'3/31/2005'
       '12/26/2005', '8/25/2006', '8/16/2007', '11/23/0006',
'1/6/2006'
       '5/23/2006', '9/9/2006', '11/21/2005', '11/19/2005',
'3/13/2006',
       '9/10/2005', '10/26/2005', '11/28/2006', '11/5/2006',
'1/5/2007'.
       '11/15/2005', '2/3/2006', '4/10/2007', '10/6/2006',
```

```
'7/30/2007',
        '12/28/2005', '10/7/2003', '2/3/2005', '8/21/2005',
'8/10/2005',
        '12/5/2006', '1/29/2006', '5/24/2007', '1/1/2006',
'11/11/2007',
        '9/11/2007', '12/3/2005', '9/3/2006', '6/12/2007', '1/17/2007',
        '12/19/2006', '8/17/2007', '5/6/2006', '9/27/2007',
'10/28/2006',
        '10/26/2006', '2/22/2005', '2/24/2006', '5/29/2005',
'1/17/2006',
        '2/11/2006', '11/16/2006', '3/29/2006', '1/30/2006',
'11/26/2006',
        '10/23/2005', '8/24/2005', '10/14/2006', '9/20/2005',
'4/29/2004',
        '3/5/2006', '1/7/2006', '6/30/2007', '4/8/2006', '12/22/2006'
'6/24/2007', '7/1/2006', '9/8/2005', '10/10/2006', '7/30/2006'
'9/6/2003', '4/6/2007', '1/1/2005', '8/16/2006', '5/11/2006',
                                                                '7/30/2006',
        '1/4/2007', '10/20/2007', '6/10/2005', '1/11/2006', '7/2/2008', '8/5/2023', '11/21/2006', '10/17/2006', '7/24/2007',
'8/3/2007',
        '7/21/2006', '12/6/2006', '12/4/2005', '5/1/2007', '6/5/2006',
        '3/24/2007', '6/11/2004', '1/28/2008', '7/17/2006',
'3/18/2006',
        '1/24/2007', '8/29/2006', '1/29/2007', '6/22/2003',
'1/18/2003',
        '5/24/2003', '8/21/2004', '12/28/2003', '8/30/2005',
'5/3/2003',
        '10/4/2003', '9/18/2003', '10/17/2003', '10/4/2023',
'10/17/2023',
        '1/9/2003', '3/11/2003', '6/4/2004', '9/7/2003', '4/24/2004',
        '11/22/2006', '4/7/2006', '5/10/2007', '12/12/2006',
'7/7/2006'.
        '7/15/2006', '1/28/2007', '2/13/2003', '5/9/2006', '5/30/2007',
        '5/17/2008', '10/29/2006', '3/4/2007', '3/3/2007',
'10/13/2007'
        '8/6/2008', '4/14/2008', '10/7/2009', '10/18/2005',
'8/13/2006'
        '10/19/2007', '7/25/2006', '3/29/2008', '6/6/2007', '4/9/2023',
        '9/2/2007', '12/28/2007', '6/16/2008', '4/17/2007',
        '12/18/2004', '6/26/2007', '3/6/2008', '6/3/2008', '1/3/2007',
        '11/8/2007', '1/16/2007'], dtype=object)
df["Date of Birth"].dtypes
dtype('0')
 df["Date of Birth"] = pd.to datetime(df["Date of Birth"],
errors='coerce')
```

```
df["Date of Birth"].dtypes
dtype('<M8[ns]')</pre>
from datetime import datetime
present=datetime.now().year
df['Age']=present-df['Date of Birth'].dt.year
df['Age'].unique()
array([21., 20., 25., 22., 17., 19., 18., 1., 16., 24., 23., 2.,
nan,
       15.])
# Assuming df is your DataFrame
df = df[\sim((df['Age'] == 0) | (df['Age'] == 1))]
df['Age'].unique()
array([21., 20., 25., 22., 17., 19., 18., 16., 24., 23., 2., nan,
15.])
df.isnull().sum()
Name
Email
Gender
Date of Birth
Study Year
Which of the following sources of stress are most significant in your
life? (Select all that apply)
Are you facing a lack of concentration.
Are you facing problems with making decisions ?
You feel, your life is sad, as there is no joy in your life anymore
You have been very irritated and angry recently and having mood swings
Little interest or pleasure in doing things, you enjoy or Feel to have
less interaction with Social network.
Do you observed changes in food habits?
How often do you experience trouble sleeping
Do you often experience physical symptoms like headaches or muscle
```

```
tension when stressed?
View of yourself?
Thoughts that you would be better off dead, or of hurting yourself in
some wav?
How would you rate your overall stress level on a scale from 1 (low)
to 5 (high) [ Stress Level]
Overall, do you believe that stress significantly affects your daily
life and well-being?
Age
dtype: int64
df.dropna(inplace=True)
df.isnull().sum()
Name
Email
Gender
Date of Birth
Study Year
Which of the following sources of stress are most significant in your
life? (Select all that apply)
Are you facing a lack of concentration.
Are you facing problems with making decisions ?
You feel, your life is sad, as there is no joy in your life anymore
You have been very irritated and angry recently and having mood swings
Little interest or pleasure in doing things, you enjoy or Feel to have
less interaction with Social network.
Do you observed changes in food habits?
How often do you experience trouble sleeping
Do you often experience physical symptoms like headaches or muscle
tension when stressed?
View of yourself?
Thoughts that you would be better off dead, or of hurting yourself in
some wav?
How would you rate your overall stress level on a scale from 1 (low)
```

```
to 5 (high) [ Stress Level]
Overall, do you believe that stress significantly affects your daily
life and well-being?
Aae
dtype: int64
df.shape
(587, 19)
df.columns
Index([' Name', 'Email', 'Gender', 'Date of Birth', 'Study Year',
       'Which of the following sources of stress are most significant
in your life? (Select all that apply) ',
       'Are you facing a lack of concentration. ',
       'Are you facing problems with making decisions ? ',
       'You feel, your life is sad, as there is no joy in your life
anymore ',
       'You have been very irritated and angry recently and having
mood swings ',
       'Little interest or pleasure in doing things, you enjoy or Feel
to have less interaction with Social network. '
       'Do you observed changes in food habits?'
       'How often do you experience trouble sleeping ',
       ' Do you often experience physical symptoms like headaches or
muscle tension when stressed? ',
       'View of yourself?',
       'Thoughts that you would be better off dead, or of hurting
yourself in some way? ',
       'How would you rate your overall stress level on a scale from 1
(low) to 5 (high) [ Stress Level]',
       'Overall, do you believe that stress significantly affects your
daily life and well-being? ',
       'Age'],
      dtype='object')
```

Grouping the data based on Stress Reasons

```
dfl=df.groupby('Which of the following sources of stress are most
significant in your life? (Select all that apply) ' )
dfl.apply(lambda x: x.head())

Name \
Which of the following sources of stress are mo...
```

Acedamics saadiya	1	Shaik Haleema
Swetha	2	
	5	
Jagathi Sri	15	Harshitha
Suryakumar	16	K
Surya Teja		
Work, Health Sai Teja	603	Charan
Work, Relationship K.SREEJA	280	
MATHUR	334	SAKE GOUTHAM
	514	
Gnaneshwar Work, Relationship, Financial VARDHAN	242	MADHU
Email $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		
Acedamics saadiyashaik13@gmail.com	1	
r190311@rguktrkv.ac.in	2	
jagathisri9059@gmail.com	5	
Www.harshithasuryakumar@gmail.com	15	
r190528@rguktrkv.ac.in	16	
Work, Health	603	
<pre>charansaitejaummadisetty@gmail.com Work, Relationship</pre>	280	
rr200816@rguktrkv.ac.in	334	
gouthammathur1537@gmail.com	514	
<pre>gnaneshwarmada@gmail.com Work, Relationship, Financial rr200568@rguktrkv.ac.in</pre>	242	

Birth \ Which of the following sources of stress are mo		Gender Date of
Acedamics 2003-07-13	1	Female
2004-07-29	2	Female
2003-09-17	5	Female
	15	Female
2007-06-05	16	Male
2002-12-16		
Work, Health	603	Male
2007-04-17 Work, Relationship	280	Female
2004-08-23	334	Male
2007-08-09	514	Male
2008-07-02 Work, Relationship, Financial 2004-12-14	242	Male
Study Year \ Which of the following sources of stress are mo		
Acedamics Enng-3	1	
	2	
Enng-3	5	
Enng-3	15	Inter Second
Year/P2	16	
Enng-3		
Work, Health	603	Inter First
Year/P1 Work, Relationship	280	
Enng-2	334	Inter Second
Year/P2	514	Inter Second

Year/P2 Work, Relationship, Financial Enng-2	242
following sources of stress are most significant i all that apply) \ Which of the following sources of stress are mo	
Acedamics Acedamics	1
Acedamics	5
Acedamics Acedamics	15
Acedamics	16
···	603
Work, Health Work, Health	603
Work, Relationship Work, Relationship	280
Work, Relationship	334
Work Dolationship	514
Work, Relationship	242
Work, Relationship, Financial Work, Relationship, Financial	242
a lack of concentration. \	Are you facing
Which of the following sources of stress are mo	
Acedamics Neutral	2
Somewhat agree	5
Somewhat agree	
Somewhat agree	15
Somewhat agree	16

•••		
Work, Health	603	
Completely agree Work, Relationship	280	
Somewhat agree	334	
Somewhat agree	514	
Somewhat agree		
Work, Relationship, Financial Completely disagree	242	
		Are you facing
problems with making decisions ? \ Which of the following sources of stress are mo		
Acedamics Completely disagree	1	
	2	
Somewhat agree	5	
Neutral	15	
Completely agree	16	
Completely disagree	10	
Work, Health Somewhat agree	603	
Work, Relationship Completely agree	280	
	334	
Completely agree	514	
Somewhat agree Work, Relationship, Financial	242	
Somewhat agree		
life is sad, as there is no joy in your life anymo Which of the following sources of stress are mo		You feel, your \
Acedamics	1	
Completely disagree	2	
Completely disagree	5	
Somewhat agree		

	15
Completely disagree	16
Completely disagree	10
Work, Health	603
Completely agree Work, Relationship	280
Somewhat agree	334
Completely disagree	
Somewhat agree	514
Work, Relationship, Financial Completely disagree	242
very irritated and angry recently a Which of the following sources of s	You have been and having mood swings \tress are mo
Acedamics	1
Neutral	2
Neutral	5
Neutral	
Somewhat agree	15
	16
Completely disagree	
Work, Health Completely agree	603
Work, Relationship	280
Somewhat agree	334
Neutral	514
Completely disagree Work, Relationship, Financial Completely agree	242
or pleasure in doing things, you en interaction with Social network. Which of the following sources of s	\
Acedamics	1

Yes	2
Yes	5
No	
No	15
Yes	16
Work, Health Yes	603
Work, Relationship Yes	280
Yes	334
Yes	514
Work, Relationship, Financial Yes	242
changes in food habits? \ Which of the following sources of stress are mo	Do you observed
Acedamics Yes	1
	2
Yes	5
Yes	15
No	16
No	
Work, Health	603
Yes Work, Relationship	280
No	334
Yes	514
No Work, Relationship, Financial	242
Yes	
	How often do

you experience trouble sleeping \Which of the following sources of stress are mo	
Acedamics Rarely	1
Never	5
Rarely	15
Rarely	16
Never	
Work, Health Frequently	603
Work, Relationship Rarely	280
Never	334
Rarely	514
Work, Relationship, Financial Frequently	242
experience physical symptoms like headaches or musstressed? \ Which of the following sources of stress are mo	
<pre>stressed? \ Which of the following sources of stress are mo Acedamics</pre>	cle tension when
<pre>stressed? \ Which of the following sources of stress are mo</pre>	cle tension when
<pre>stressed? \ Which of the following sources of stress are mo Acedamics</pre>	cle tension when
<pre>stressed? \ Which of the following sources of stress are mo Acedamics Occassionally</pre>	cle tension when 1 2 5
<pre>stressed? \ Which of the following sources of stress are mo Acedamics Occassionally Never</pre>	cle tension when 1 2 5
<pre>stressed? \ Which of the following sources of stress are mo Acedamics Occassionally Never Occassionally</pre>	cle tension when 1 2 5
<pre>stressed? \ Which of the following sources of stress are mo Acedamics Occassionally Never Occassionally Never Rarely Work, Health</pre>	cle tension when 1 2 5
<pre>stressed? \ Which of the following sources of stress are mo Acedamics Occassionally Never Occassionally Never Rarely Work, Health Frequently Work, Relationship</pre>	cle tension when 1 2 5 15
<pre>stressed? \ Which of the following sources of stress are mo Acedamics Occassionally Never Occassionally Never Rarely Work, Health Frequently Work, Relationship Rarely</pre>	1 2 5 15 16 603
<pre>stressed? \ Which of the following sources of stress are mo Acedamics Occassionally Never Occassionally Never Rarely Work, Health Frequently Work, Relationship</pre>	cle tension when 1 2 5 15 16 603 280

Never Work, Relationship, Financial Occassionally	242		
View of yourself? Which of the following sources of stress are mo			
Acedamics yourself as equally worthwhile as others	1	You see	
yourself as equally worthwhile as others	5	You see	
yourself as equally worthwhile as others	15	You Feel	more
self blaming ,for every mistakes yourself as equally worthwhile as others	16	You see	
 Work, Health	603	You Feel	more
self blaming ,for every mistakes Work, Relationship		You see	mor c
yourself as equally worthwhile as others self blaming ,for every mistakes	334	You Feel	more
self blaming ,for every mistakes		You Feel	
Work, Relationship, Financial self blaming ,for every mistakes	242	You Feel	more
you would be better off dead, or of hurting yourse Which of the following sources of stress are mo		Thoughts to some way?	
Acedamics Completely disagree	1		
Completely disagree	2		
Completely disagree	15		
Completely disagree	16		
Completely disagree			
Work, Health Completely agree	603		
Work, Relationship	280		

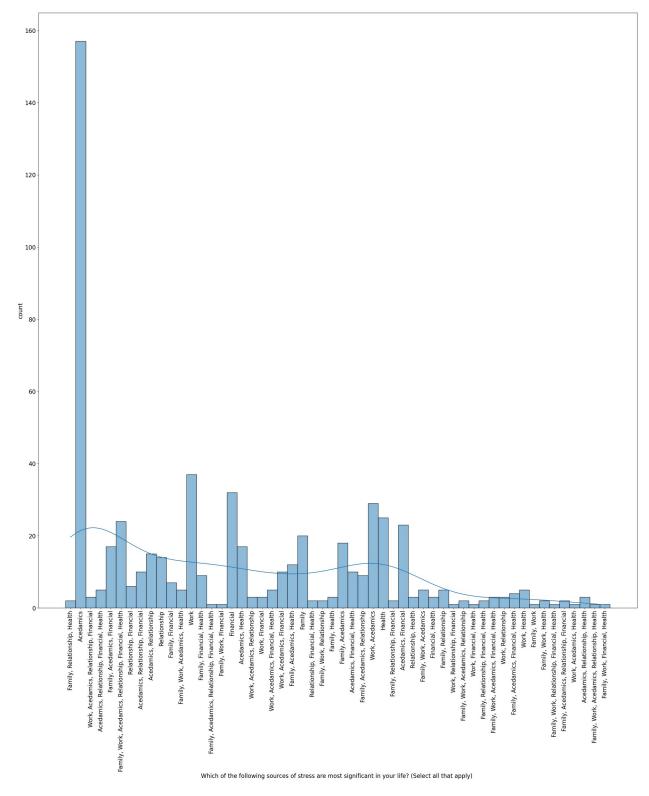
Completely dispuse	
Completely disagree	334
Completely disagree	514
Somewhat agree Work, Relationship, Financial	242
Somewhat agree	
<pre>rate your overall stress level on a scale from 1 ([Stress Level] \</pre>	How would you low) to 5 (high)
Which of the following sources of stress are mo	
Acedamics 1	1
	2
3	5
3	15
3	16
2	
Work, Health	603
Work, Relationship 3	280
2	334
	514
<pre>Work, Relationship, Financial</pre>	242
4	
<pre>believe that stress significantly affects your dai being? \</pre>	Overall, do you ly life and well-
Which of the following sources of stress are mo	
Acedamics	1
Yes, to some extent	2
Yes, significantly	5
Yes, significantly	15
Yes, significantly	
	16

```
No, not at all
. . .
. . .
Work, Health
                                                    603
Yes, significantly
Work, Relationship
                                                    280
Yes, significantly
                                                    334
No, not at all
                                                    514
No, not at all
Work, Relationship, Financial
                                                    242
Yes, significantly
                                                           Age
Which of the following sources of stress are mo...
Acedamics
                                                    1
                                                          21.0
                                                    2
                                                          20.0
                                                    5
                                                          21.0
                                                          17.0
                                                     15
                                                     16
                                                          22.0
                                                           . . .
Work, Health
                                                          17.0
                                                     603
Work, Relationship
                                                    280
                                                          20.0
                                                    334
                                                          17.0
                                                    514
                                                         16.0
Work, Relationship, Financial
                                                    242 20.0
[191 rows x 19 columns]
# Assuming dfl is your DataFrameGroupBy object
for name, group in df1:
    print(f"Group: {name}")
    c=c+1
print("Total No of Groups formed",c)
Group: Acedamics
Group: Acedamics, Financial
Group: Acedamics, Financial, Health
Group: Acedamics, Health
Group: Acedamics, Relationship
Group: Acedamics, Relationship, Financial
Group: Acedamics, Relationship, Financial, Health
Group: Acedamics, Relationship, Health
Group: Family
Group: Family, Acedamics
Group: Family, Acedamics, Financial
Group: Family, Acedamics, Financial, Health
Group: Family, Acedamics, Health
```

```
Group: Family, Acedamics, Relationship
Group: Family, Acedamics, Relationship, Financial
Group: Family, Acedamics, Relationship, Financial, Health
Group: Family, Financial
Group: Family, Financial, Health
Group: Family, Health
Group: Family, Relationship
Group: Family, Relationship, Financial
Group: Family, Relationship, Financial, Health
Group: Family, Relationship, Health
Group: Family, Work
Group: Family, Work, Acedamics
Group: Family, Work, Acedamics, Financial, Health
Group: Family, Work, Acedamics, Health
Group: Family, Work, Acedamics, Relationship
Group: Family, Work, Acedamics, Relationship, Financial, Health
Group: Family, Work, Acedamics, Relationship, Health
Group: Family, Work, Financial
Group: Family, Work, Financial, Health
Group: Family, Work, Health
Group: Family, Work, Relationship
Group: Family, Work, Relationship, Financial, Health
Group: Financial
Group: Financial, Health
Group: Health
Group: Relationship
Group: Relationship, Financial
Group: Relationship, Financial, Health
Group: Relationship, Health
Group: Work
Group: Work, Acedamics
Group: Work, Acedamics, Financial
Group: Work, Acedamics, Financial, Health
Group: Work, Acedamics, Health
Group: Work, Acedamics, Relationship
Group: Work, Acedamics, Relationship, Financial
Group: Work, Financial
Group: Work, Financial, Health
Group: Work, Health
Group: Work, Relationship
Group: Work, Relationship, Financial
Total No of Groups formed 54
group sizes = df1.size()
print(group sizes)
Which of the following sources of stress are most significant in your
life? (Select all that apply)
                                                            157
Acedamics
Acedamics, Financial
                                                              23
```

```
Acedamics, Financial, Health
                                                               10
Acedamics, Health
                                                               17
Acedamics, Relationship
                                                               15
Acedamics, Relationship, Financial
                                                               10
Acedamics, Relationship, Financial, Health
                                                               5
Acedamics, Relationship, Health
                                                               3
                                                               20
Family
Family, Acedamics
                                                               18
Family, Acedamics, Financial
                                                               17
Family, Acedamics, Financial, Health
                                                               4
Family, Acedamics, Health
                                                               12
Family, Acedamics, Relationship
                                                               9
Family, Acedamics, Relationship, Financial
                                                               2
                                                               1
Family, Acedamics, Relationship, Financial, Health
Family, Financial
                                                               7
                                                               9
Family, Financial, Health
                                                               3
Family, Health
                                                               5
Family, Relationship
                                                               2
Family, Relationship, Financial
Family, Relationship, Financial, Health
                                                               2
Family, Relationship, Health
                                                               2
Family, Work
                                                               1
Family, Work, Acedamics
                                                               5
                                                               3
Family, Work, Acedamics, Financial, Health
Family, Work, Acedamics, Health
                                                               5
Family, Work, Acedamics, Relationship
                                                               2
Family, Work, Acedamics, Relationship, Financial, Health
                                                               24
Family, Work, Acedamics, Relationship, Health
                                                               1
Family, Work, Financial
                                                               1
Family, Work, Financial, Health
                                                               1
Family, Work, Health
                                                               2
                                                               2
Family, Work, Relationship
                                                               1
Family, Work, Relationship, Financial, Health
                                                               32
Financial
Financial, Health
                                                               3
                                                               25
Health
Relationship
                                                               14
Relationship, Financial
                                                               6
                                                               2
Relationship, Financial, Health
Relationship, Health
                                                               3
                                                               37
Work
Work, Acedamics
                                                               29
Work, Acedamics, Financial
                                                               10
Work, Acedamics, Financial, Health
                                                               5
Work, Acedamics, Health
                                                               1
Work, Acedamics, Relationship
                                                               3
Work, Acedamics, Relationship, Financial
                                                               3
                                                               3
Work, Financial
Work, Financial, Health
                                                               1
```

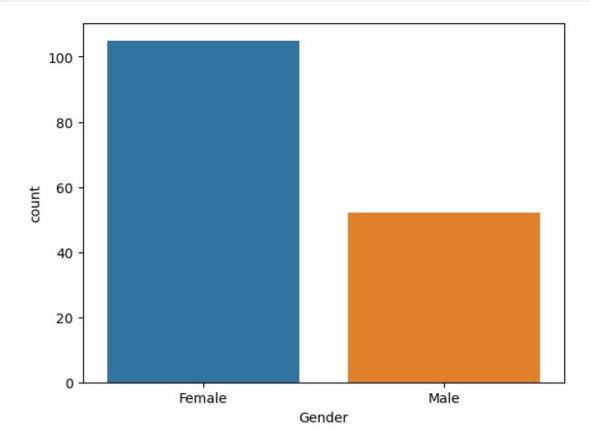
```
Work, Health
                                                                 5
Work, Relationship
                                                                 3
Work, Relationship, Financial
                                                                 1
dtype: int64
group sizes df = df1.size().reset index(name='Group Size')
# Find the row with the maximum size
max group row = group sizes df[group sizes df['Group Size'] ==
group sizes df['Group Size'].max()]
# Display the row with the maximum size
max group row
  Which of the following sources of stress are most significant in
your life? (Select all that apply) \
                                             Acedamics
   Group Size
0 157
plt.figure(figsize=(30,30))
a=df['Which of the following sources of stress are most significant in
your life? (Select all that apply) ' ]
sns.histplot(a,kde=True)
plt.xticks(rotation=90)
plt.tick_params(axis='x', labelsize=16)
plt.tick_params(axis='y', labelsize=16)
plt.xlabel('Which of the following sources of stress are most
significant in your life? (Select all that apply) ', fontsize=16)
plt.ylabel('count',fontsize=16)
plt.show()
```



• From above analysis we can observee that many students feeling stress from Acedamics

Acedamics_df=df1.get_group('Acedamics')

```
Acedamics df.shape
(157, 19)
Acedamics_df.Gender.value_counts()
Female
          105
Male
           52
Name: Gender, dtype: int64
sns.countplot(Acedamics df.Gender)
plt.show()
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
decorators.py:36: FutureWarning: Pass the following variable as a
keyword arg: x. From version 0.12, the only valid positional argument
will be `data`, and passing other arguments without an explicit`
keyword will result in an error or misinterpretation.
  warnings.warn(
```



• From above analysis we can observee that, females are experiencing more stress because of Acedamics.

```
df.Age.unique()
array([21., 20., 25., 22., 17., 19., 18., 16., 24., 23., 2., 15.])
```

```
# Replace 'Age' with the actual column name from your DataFrame
df2=df.copy()
bins = [10, 12, 14, 16, 18, 20, 25] # Define your desired age ranges
labels = ['10-12', '12-14', '14-16', '16-18', '18-20', '20-25'] #
Labels for the age ranges
df2['Age'] = pd.cut(df['Age'], bins=bins, labels=labels, right=False)
# Now df['Age Range'] contains the age ranges for each entry
df2.head()
                                                Email Gender Date of
                     Name
Birth \
             Pavan Kalyan pavankalyanc162@gmail.com
                                                         Male
                                                                 2003 -
0
12-17
1 Shaik Haleema saadiya
                            saadiyashaik13@gmail.com
                                                      Female
                                                                 2003 -
07 - 13
                   Swetha
                              r190311@rguktrkv.ac.in Female
                                                                 2004 -
07 - 29
                                                                 2004 -
                   Chandu
                              r190266@rguktrkv.ac.in
                                                         Male
08 - 19
              G.Praharsha
                              r190411@rguktrkv.ac.in Female
                                                                 2004-
06 - 10
  Study Year \
0
      Enng-3
1
      Enng-3
2
      Enng-3
3
      Enng-3
      Enng-3
 Which of the following sources of stress are most significant in
your life? (Select all that apply)
                        Family, Relationship, Health
0
1
                                            Acedamics
2
                                            Acedamics
            Work, Acedamics, Relationship, Financial
3
          Acedamics, Relationship, Financial, Health
  Are you facing a lack of concentration. \
0
                          Completely agree
1
                                    Neutral
2
                            Somewhat agree
3
                            Somewhat agree
4
                          Completely agree
```

```
Are you facing problems with making decisions ? \
0
                                   Completely agree
1
                                Completely disagree
2
                                     Somewhat agree
3
                                   Completely agree
4
                                   Completely agree
 You feel, your life is sad, as there is no joy in your life anymore
0
                                     Completely agree
                                  Completely disagree
1
2
                                  Completely disagree
3
                                  Completely disagree
                                              Neutral
 You have been very irritated and angry recently and having mood
swings
                                     Completely agree
                                              Neutral
1
2
                                              Neutral
3
                                              Neutral
                                              Neutral
  Little interest or pleasure in doing things, you enjoy or Feel to
have less interaction with Social network.
                                                  Yes
1
                                                  Yes
2
                                                  Yes
3
                                                  Yes
                                                  Yes
 Do you observed changes in food habits? \
0
                                        No
1
                                       Yes
2
                                       Yes
```

```
3
                                        No
4
                                        No
 How often do you experience trouble sleeping \
0
                                     Frequently
1
                                         Rarely
2
                                           Never
3
                                           Never
4
                                         Rarely
   Do you often experience physical symptoms like headaches or muscle
tension when stressed?
                                           Frequently
1
                                        Occassionally
2
                                                Never
3
                                               Rarely
                                        Occassionally
                                  View of yourself? \
O You see yourself as equally worthwhile as others
1 You see yourself as equally worthwhile as others
  You see yourself as equally worthwhile as others
3 You see yourself as equally worthwhile as others
4 You see yourself as equally worthwhile as others
  Thoughts that you would be better off dead, or of hurting yourself
in some way?
                                    Completely agree
                                 Completely disagree
2
                                 Completely disagree
3
                                      Somewhat agree
                                      Somewhat agree
   How would you rate your overall stress level on a scale from 1
(low) to 5 (high) [ Stress Level] \
                                                    5
                                                    1
1
2
                                                    3
```

```
3
                                                   2
                                                   3
  Overall, do you believe that stress significantly affects your daily
life and well-being?
                                  Yes, significantly
1
                                 Yes, to some extent
2
                                  Yes, significantly
                                      No, not at all
                                  Yes, significantly
     Age
  20-25
0
1
  20-25
2
  20-25
  20-25
3
4 20-25
df2.Age.unique()
['20-25', NaN, '16-18', '18-20', '14-16']
Categories (6, object): ['10-12' < '12-14' < '14-16' < '16-18' < '18-
20' < '20-25']
group by age=df2.groupby('Age')
group sizes df = group by age.size().reset index(name='Group Size')
# Find the row with the maximum size
max group row = group sizes df[group sizes df['Group Size'] ==
group sizes df['Group Size'].max()]
# Display the row with the maximum size
max group row
     Age Group Size
4 18-20
                 260
group sizes df = group by age.size().reset index(name='Group Size')
# Find the row with the maximum size
```

```
max_group_row = group_sizes_df[group_sizes_df['Group Size'] ==
group sizes df['Group Size'].min()]
# Display the row with the maximum size
max group row
     Age
          Group Size
   10-12
  12-14
                    0
group by age.apply(lambda x:x.head())
                              Name
                                                                   Email
Age
14-16 586
           Srujankumargalipothula
                                                 babluhero712@gmail.com
16-18 15
            Harshitha Suryakumar
                                    Www.harshithasuryakumar@gmail.com
                 SATRAVADA RAJESH
      26
                                              satrawadarajesh@gmail.com
      89
                     Koteswararao
                                    koteswararaoperupogu1432@gmail.com
      124
                   G.Lahana Reddy
                                                 r220539@rguktrkv.ac.in
      126
                  M.Balaji Reddy
                                                 r220085@rguktrkv.ac.in
18-20 17
                        A. Susmitha
                                             avukususmitha579@gmail.com
      18
                          Snehitha
                                           snehithapokuru2404@gmail.com
      39
                           Neeraja
                                          neeraja.kuttuboina@gmail.com
      48
                            Sreeja
                                              Sriyash.gummadi@gmail.com
      49
                     Bonala Akhila
                                                 r210848@rguktrkv.ac.in
20-25 0
                      Pavan Kalyan
                                              pavankalyanc162@gmail.com
           Shaik Haleema saadiya
      1
                                               saadiyashaik13@gmail.com
      2
                            Swetha
                                                 r190311@rguktrkv.ac.in
      3
                            Chandu
                                                 r190266@rguktrkv.ac.in
                       G. Praharsha
                                                 r190411@rguktrkv.ac.in
                       Gender Date of Birth
                                                        Study Year \
```

Δ								
Age 14-16 16-18			Male Female Male Male Female Male	2007 2008 2007 2007	- 10 - 07 - 06 - 05 - 08 - 28 - 08 - 10 - 05 - 14	Inter Inter Inter Inter	Second First Second Second	Year/P1 Year/P2 Year/P1 Year/P2 Year/P2
18-20	17 18 39 48	Prefer Not	Female To Say Female Female	2005 2006 2006 2005	-06-02 -05-30 -04-24 -12-03 -11-22			Enng-1 Enng-1 Year/P2 Enng-1
20-25	49 0 1 2 3 4		Female Female Female Male Female	2003 2003 2004 2004	- 06 - 30 - 12 - 17 - 07 - 13 - 07 - 29 - 08 - 19 - 06 - 10			Enng-1 Enng-3 Enng-3 Enng-3 Enng-3
				_001				9 5
signi Age		Which of the t in your l						ost
14-16	586	Family, Wo	rk, Acedam	ics, F	Relatio	nship,	Financ	i
16-18	15						Acedar	nics
	26				Family	, Work,	Financ	cial
	89					Family,	Acedar	nics
	124				Relati	onship,	Financ	cial
	126		Fa	mily,	Acedam	ics, Re	lations	ship
18-20	17						Acedar	nics
	18		Fa	mily,	Work,	Acedami	cs, Hea	alth
	39						Acedar	nics
	48						Far	nily
	49						Acedar	nics
20-25	0			Fami	ly, Rel	ationsh	ip, Hea	alth
	1						Acedar	nics
	2						Acedar	nics
	3	Wo	ork, Aceda	mics,	Relati	onship,	Financ	cial

```
4
                  Acedamics, Relationship, Financial, Health
          Are you facing a lack of concentration. \
Age
14-16 586
                                   Completely agree
16-18 15
                                     Somewhat agree
                                     Somewhat agree
      26
      89
                                   Completely agree
      124
                                     Somewhat agree
      126
                                             Neutral
18-20 17
                                   Completely agree
      18
                                             Neutral
      39
                                   Completely agree
                                   Completely agree
      48
      49
                                     Somewhat agree
20-25 0
                                   Completely agree
      1
                                             Neutral
      2
                                     Somewhat agree
      3
                                     Somewhat agree
      4
                                   Completely agree
          Are you facing problems with making decisions ? \
Age
14-16 586
                                                     Neutral
16-18 15
                                            Completely agree
      26
                                                     Neutral
      89
                                              Somewhat agree
      124
                                            Completely agree
      126
                                                     Neutral
18-20 17
                                              Somewhat agree
                                              Somewhat agree
      18
      39
                                            Completely agree
      48
                                         Completely disagree
      49
                                                     Neutral
20-25 0
                                            Completely agree
      1
                                         Completely disagree
      2
                                              Somewhat agree
      3
                                            Completely agree
      4
                                            Completely agree
          You feel, your life is sad, as there is no joy in your life
anymore
Age
14-16 586
                                           Completely disagree
16-18 15
                                           Completely disagree
```

	26	Neutral
	89	Neutral
	124	Somewhat agree
	126	Somewhat agree
18-20	17	Completely disagree
	18	Completely agree
	39	Completely agree
	48	Neutral
	49	Neutral
20-25	0	Completely agree
	1	Completely disagree
	2	Completely disagree
	3	Completely disagree
	4	Neutral
mood :		have been very irritated and angry recently and having \
14-16	586	Completely disagree
16-18	15	Somewhat agree
	26	Completely agree
	89	Completely disagree
	124	Somewhat agree
	126	Somewhat agree
18-20	17	Neutral
	18	Completely agree
	39	Completely agree
	48	Completely agree

49	Completely	agree
20-25 0	Completely	agree
1	Ne	eutral
2	Ne	eutral
3	Ne	eutral
4	Ne	eutral
Feel to h	Little interest or pleasure in doing things, nave less interaction with Social network.	you enjoy or
14-16 586	5	Yes
16-18 15		No
26		Yes
89		Yes
124	1	Yes
126	5	No
18-20 17		No
18		No
39		Yes
48		Yes
49		Yes
20-25 0		Yes
1		Yes
2		Yes
3		Yes
4		Yes
	Do you observed changes in food habits? \	

Age		
14-16	586	Yes
16-18		No
	26	Yes
	89	No
	124	Yes
	126	No
18-20		No
10-20	18	Yes
	39	No
	48	Yes
	49	No
20-25		No No
20-25	0	
	1	Yes
	2	Yes
	3	No
	4	No
	Ном	v often do you experience trouble sleeping \
Age	HOW	often do you experience troubte steeping (
14-16	586	Frequently
16-18		Rarely
10-10	26	Never
	89	Never
	124	Rarely
	124	
18-20	17	Rarely
10-20		Rarely
	18	Frequently Never
	39 48	
	40 49	Frequently
20 25		Rarely
20-25	0	Frequently
	1	Rarely
	2	Never
	3	Never
	4	Rarely
muscle	Do tensio	you often experience physical symptoms like headaches or on when stressed? \
Age		
14-16	586	Rarely
16-18	15	Never
	26	F
	26	Frequently
	89	Never
		Nevel
	124	Occassionally

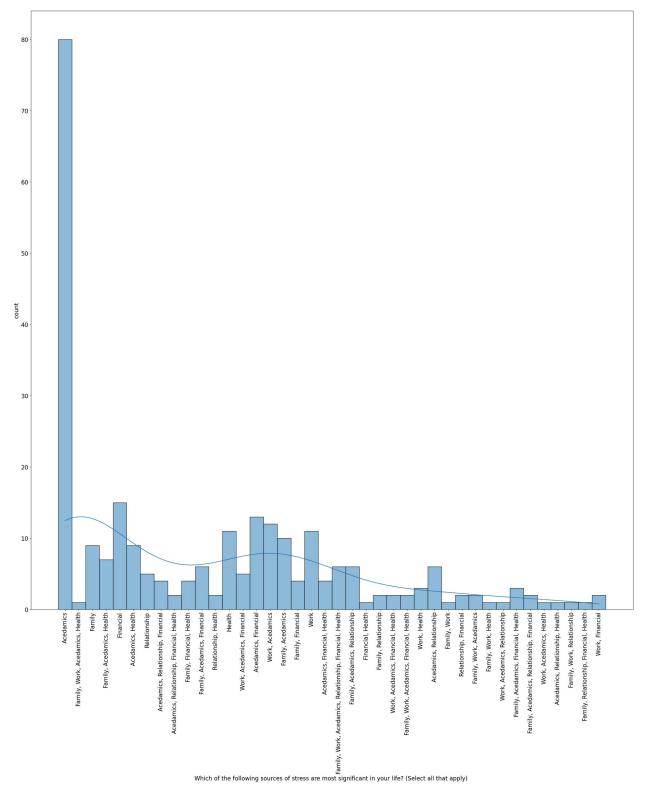
	126	Never
10.20		
18-20		Occassionally
	18	Occassionally
	39	Never
	48	Occassionally
	49	Never
20-25	0	Frequently
	1	Occassionally
	2	Never
	3	Rarely
	4	Occassionally
Age		View of yourself? \
14-16 16-18	15 You Fe 26 You s 89 You s 124 You Fe 126 You s 17 You s 18 You Fe 39 You s 48 You s 49 You s 0 You s 1 You s 2 You s 3 You s	ee yourself as equally worthwhile as others el more self blaming ,for every mistakes ee yourself as equally worthwhile as others ee yourself as equally worthwhile as others el more self blaming ,for every mistakes ee yourself as equally worthwhile as others el more self blaming ,for every mistakes ee yourself as equally worthwhile as others
yourse Age	Thought elf in some	s that you would be better off dead, or of hurting way? \
14-16	586	Completely disagree
16-18	15	Completely disagree

26		Completely disagree
89		Completely disagree
124		Completely disagree
126		Somewhat agree
18-20 17		Completely disagree
18		Completely agree
39		Somewhat agree
48		Somewhat agree
49		Completely disagree
20-25 0		Completely agree
1		Completely disagree
2		Completely disagree
3		Somewhat agree
4		Somewhat agree
How from 1 (low) to Age	would you rate your 5 (high) [Stress	overall stress level on a scale Level] \
14-16 586		5
16-18 15		3
26		4
89		2
124		3
126		3
18-20 17		1
18		4
39		4
48		5

49	2
20-25 0	5
1	1
2	3
3	2
4	3
Overall, do you believe your daily life and well-being? Age	that stress significantly affects \
14-16 586	Yes, significantly
16-18 15	Yes, significantly
26	Yes, significantly
89	Yes, significantly
124	Yes, significantly
126	Yes, significantly
18-20 17	No, not at all
18	Yes, significantly
39	Yes, significantly
48	No, not at all
49	Yes, significantly
20-25 0	Yes, significantly
1	Yes, to some extent
2	Yes, significantly
3	No, not at all
4	Yes, significantly
Age	

```
Age
14-16 586 14-16
16-18 15
           16-18
      26
           16-18
      89
           16 - 18
      124 16-18
      126 16-18
18-20 17
           18-20
           18-20
      18
      39
           18-20
      48
           18-20
      49
           18-20
20-25 0
           20-25
           20-25
      1
      2
           20-25
      3
           20-25
      4
           20-25
age group='18-20'
age_group_df = group_by_age.get_group(age_group)
age group df['Which of the following sources of stress are most
significant in your life? (Select all that apply) '].value counts()
Acedamics
                                                              80
                                                              15
Financial
Acedamics, Financial
                                                              13
Work, Acedamics
                                                              12
Health
                                                              11
                                                              11
Work
Family, Acedamics
                                                              10
                                                               9
Family
                                                               9
Acedamics, Health
                                                               7
Family, Acedamics, Health
Acedamics, Relationship
                                                               6
Family, Acedamics, Relationship
                                                               6
Family, Work, Acedamics, Relationship, Financial, Health
                                                               6
                                                               6
Family, Acedamics, Financial
Work, Acedamics, Financial
                                                               5
                                                               5
Relationship
                                                               4
Acedamics, Relationship, Financial
                                                               4
Family, Financial, Health
Family, Financial
Acedamics, Financial, Health
                                                               3
3
2
Family, Acedamics, Financial, Health
Work, Health
Work, Financial
                                                               2
Work, Acedamics, Financial, Health
Family, Work, Acedamics, Financial, Health
```

```
Relationship, Health
                                                              2
Relationship, Financial
Family, Work, Acedamics
                                                              2
                                                              2
Family, Relationship
                                                              2
Acedamics, Relationship, Financial, Health
                                                              2
Family, Acedamics, Relationship, Financial
Work, Acedamics, Health
                                                              1
Family, Relationship, Financial, Health
                                                              1
                                                              1
Family, Work, Relationship
Acedamics, Relationship, Health
                                                              1
Financial, Health
                                                              1
                                                              1
Work, Acedamics, Relationship
                                                              1
Family, Work
                                                              1
Family, Work, Acedamics, Health
Family, Work, Health
                                                              1
Name: Which of the following sources of stress are most significant in
your life? (Select all that apply) , dtype: int64
plt.figure(figsize=(30,30))
stress columns=age group df['Which of the following sources of stress
are most significant in your life? (Select all that apply) ' ]
sns.histplot(stress columns,kde=True)
plt.xticks(rotation=90)
plt.tick_params(axis='x', labelsize=16)
plt.tick_params(axis='y', labelsize=16)
plt.xlabel('Which of the following sources of stress are most
significant in your life? (Select all that apply) ', fontsize=16)
plt.ylabel('count', fontsize=16)
plt.show()
```



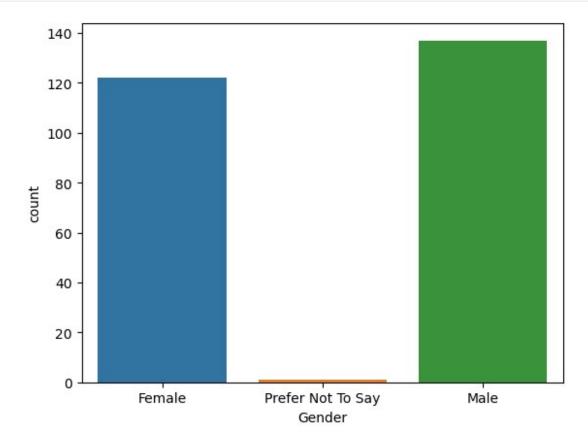
 Here, we can observe that in academics, the age group 18-20 is experiencing more stress, especially among students.

age_group_df.Gender.value_counts()

```
Male 137
Female 122
Prefer Not To Say 1
Name: Gender, dtype: int64

sns.countplot(age_group_df.Gender)
plt.show()

C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
_warnings.warn(
```



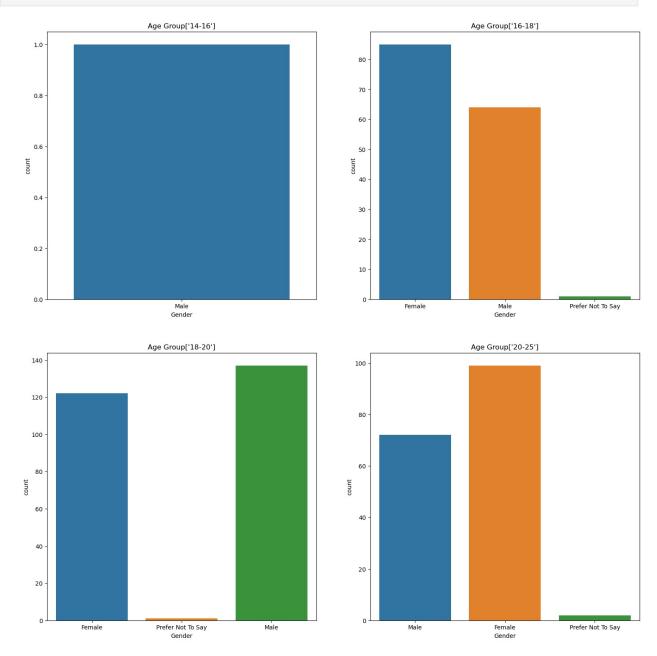
 From above analysis we can observe that in age group 16-18 Females are experiencing more stress

ALL Ages Groups acording (Female vs Male Vs Preder Not To Say)

```
group_by_ages = df2.groupby('Age', as_index=False)
age_group = group_by_ages['Age'].agg(lambda x: x.unique().tolist())
age_group = age_group[age_group['Age'].apply(lambda x: bool(x))]
print(age_group)
```

```
Age
2 [14-16]
3 [16-18]
  [18-20]
  [20-25]
group by ages = df2.groupby('Age', as_index=False)
age group = group by ages['Age'].agg(lambda x: x.unique().tolist())
# Filter out empty lists
age group = age group[age group['Age'].apply(lambda x: bool(x))]
# Plotting
plt.subplots(2,2,figsize=(18,18))
for i, j in zip(range(1, len(age_group) + 1), age_group['Age']):
    plt.subplot(2, 2, i)
    age group df = df2[df2['Age'].isin(j)]
    sns.countplot(age_group_df['Gender'])
    plt.title(f'Age Group{j}')
plt.show()
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
decorators.py:36: FutureWarning: Pass the following variable as a
keyword arg: x. From version 0.12, the only valid positional argument
will be `data`, and passing other arguments without an explicit
keyword will result in an error or misinterpretation.
 warnings.warn(
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
decorators.py:36: FutureWarning: Pass the following variable as a
keyword arg: x. From version 0.12, the only valid positional argument
will be `data`, and passing other arguments without an explicit
keyword will result in an error or misinterpretation.
  warnings.warn(
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
decorators.py:36: FutureWarning: Pass the following variable as a
keyword arg: x. From version 0.12, the only valid positional argument
will be `data`, and passing other arguments without an explicit
keyword will result in an error or misinterpretation.
  warnings.warn(
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
decorators.py:36: FutureWarning: Pass the following variable as a
keyword arg: x. From version 0.12, the only valid positional argument
will be `data`, and passing other arguments without an explicit
```

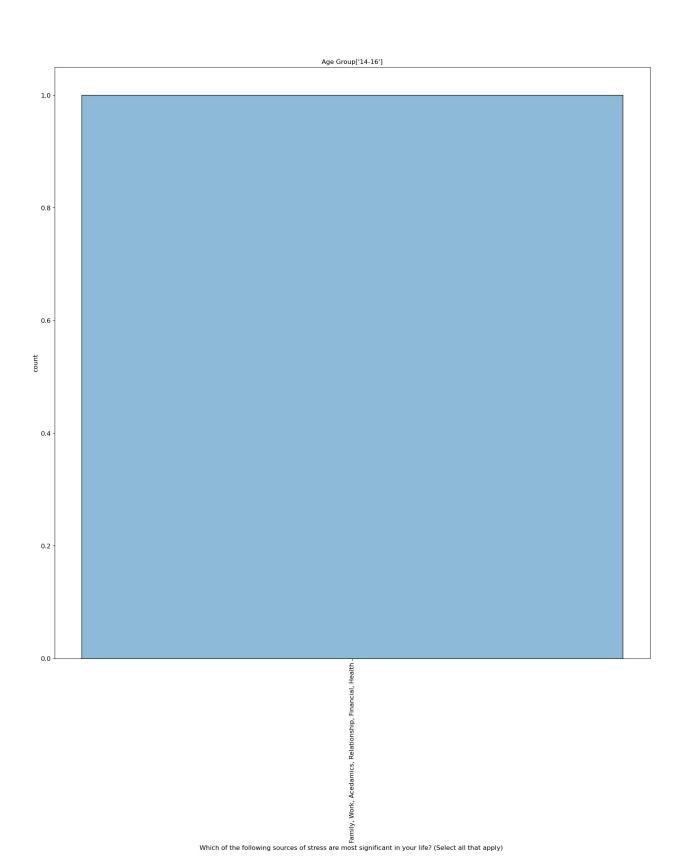
keyword will result in an error or misinterpretation. warnings.warn(

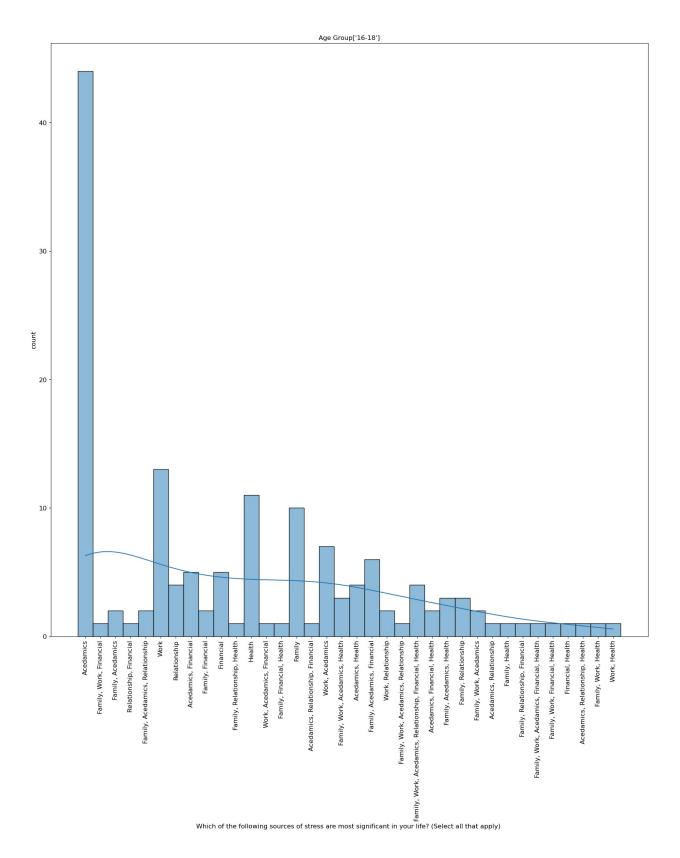


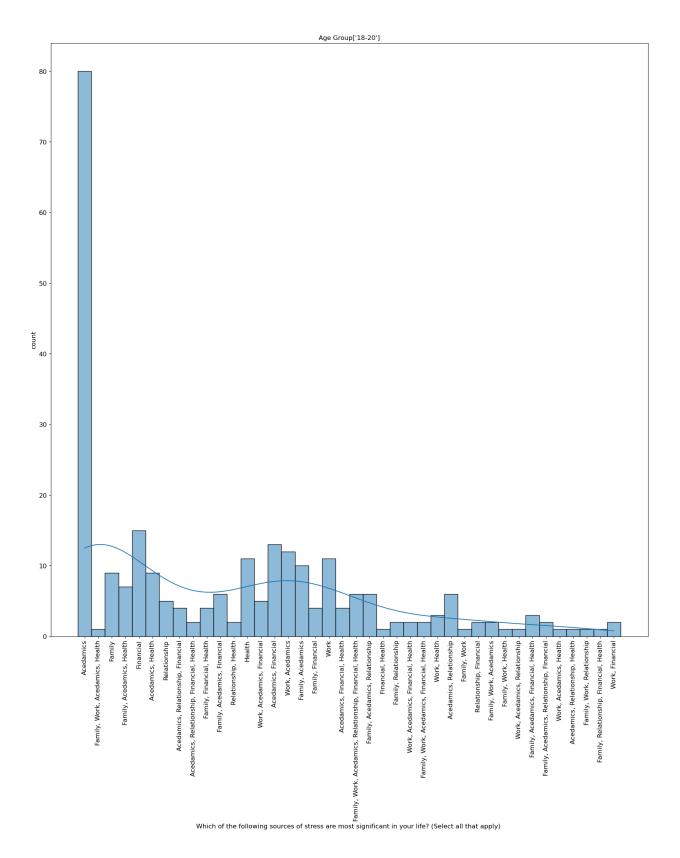
- In the age group 14-16, males are experiencing more stress.
- In the age group 16-18,18-20,20-25, females are experiencing more stress.

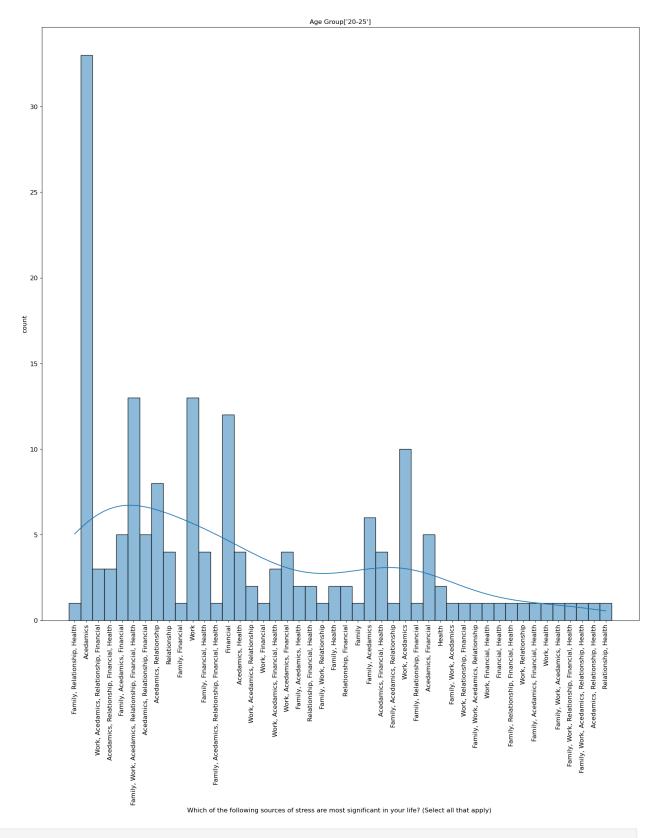
```
group_by_ages = df2.groupby('Age', as_index=False)
age_group = group_by_ages['Age'].agg(lambda x: x.unique().tolist())
# Filter out empty lists
age_group = age_group[age_group['Age'].apply(lambda x: bool(x))]
```

```
# Plotting
for i, j in zip(range(1, len(age_group) + 1), age_group['Age']):
    age_group_df = df2[df2['Age'].isin(j)]
    plt.figure(figsize=(20,20))
    stress_columns=age_group_df['Which of the following sources of
stress are most significant in your life? (Select all that apply) ' ]
    sns.histplot(stress_columns,kde=True)
    plt.xticks(rotation=90)
    plt.tick_params(axis='x', labelsize=12)
    plt.tick_params(axis='y', labelsize=12)
    plt.xlabel('Which of the following sources of stress are most
significant in your life? (Select all that apply) ', fontsize=12)
    plt.ylabel('count',fontsize=12)
    plt.title(f'Age Group{j}')
plt.show()
```







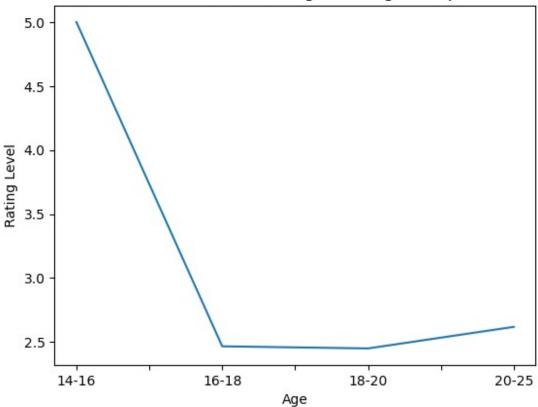


```
Index([' Name', 'Email', 'Gender', 'Date of Birth', 'Study Year',
       'Which of the following sources of stress are most significant
in your life? (Select all that apply) ',
       'Are you facing a lack of concentration. ',
       'Are you facing problems with making decisions?',
       'You feel, your life is sad, as there is no joy in your life
       'You have been very irritated and angry recently and having
mood swings ',
       'Little interest or pleasure in doing things, you enjoy or Feel
to have less interaction with Social network. '
       'Do you observed changes in food habits?',
       'How often do you experience trouble sleeping ',
       ' Do you often experience physical symptoms like headaches or
muscle tension when stressed? ',
       'View of yourself?',
       'Thoughts that you would be better off dead, or of hurting
yourself in some way? ',
       'How would you rate your overall stress level on a scale from 1
(low) to 5 (high) [ Stress Level]',
       'Overall, do you believe that stress significantly affects your
daily life and well-being? ',
       'Age'],
      dtype='object')
df['How would you rate your overall stress level on a scale from 1
(low) to 5 (high) [ Stress Level]'].value counts()
     169
2
     165
1
     136
      80
4
      37
Name: How would you rate your overall stress level on a scale from 1
(low) to 5 (high) [ Stress Level], dtype: int64
```

Stress Level According to the Age Group

```
stress_level=pd.pivot_table(df2,values='How would you rate your
overall stress level on a scale from 1 (low) to 5 (high) [ Stress
Level]',index='Age')
stress_level.plot()
plt.legend().set_visible(False)
plt.xlabel('Age')
plt.ylabel("Rating Level")
plt.title("Stress Level According to the Age Group")
plt.show()
```





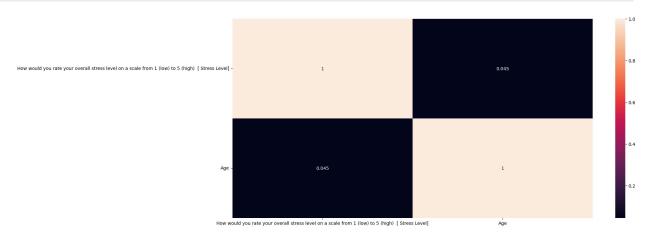
```
group_by_stress_level=df2.groupby(['Age','How would you rate your
overall stress level on a scale from 1 (low) to 5 (high) [ Stress
Level]'],as index='False')
group_sizes_df = group_by_stress_level.size().reset_index(name='Group
Size')
group_sizes_df
      Age \
    10-12
0
    10-12
1
2
    10-12
3
    10-12
4
    10-12
5
    12-14
6
    12-14
7
    12-14
    12-14
8
9
    12-14
10
   14-16
```

```
11 14-16
12 14-16
13 14-16
14 14-16
15 16-18
16 16-18
17 16-18
18 16-18
19 16-18
20 18-20
21 18-20
22 18-20
23 18-20
24 18-20
25 20-25
26 20-25
27 20-25
28 20-25
29 20-25
How would you rate your overall stress level on a scale from 1 (low) to 5 (high) [ Stress Level] \
                                                         1
0
                                                         2
                                                         3
3
                                                         4
                                                         5
5
                                                         1
                                                         2
6
                                                         3
7
                                                         4
                                                         5
9
10
                                                         1
11
                                                         2
                                                         3
12
13
                                                         4
14
                                                         5
```

15		1	
16		2	
17		3	
18		4	
19		5	
20		1	
21		2	
22		3	
23		4	
24		5	
25		1	
26		2	
27		3	
28		4	
29		5	
0	Group Size 0		
0 1 2	0 0 0		
3	0 0		
5 6	0 0		
7	0		
9	0		
11	0		
13	0		
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0 0 0 0 0 0 0 0 0 1 40 40 38		
16 17	40 38		

```
18
            24
19
            8
20
            72
21
            70
22
            63
23
            39
24
           16
25
            24
26
            55
27
            68
28
            15
29
            11
group sizes df=group sizes df[~(group sizes df['Group Size']==0)]
# Find the maximum stress level suffering age group
max age group stress level = group sizes df[group sizes df['Group
Size'] == group_sizes_df['Group Size'].max()]
# Display the maximum stress level suffering age group
max age group stress level
     Age \
20 18-20
   How would you rate your overall stress level on a scale from 1
(low) to 5 (high) [ Stress Level] \
20
   Group Size
20
      72
# Find the minimum stress level suffering age group
min age group stress level = group sizes df[group sizes df['Group
Size'] == group sizes df['Group Size'].min()]
# Display the minimum stress level suffering age group
min age group stress level
     Age \
14 14-16
   How would you rate your overall stress level on a scale from 1
(low) to 5 (high) [ Stress Level] \
                                                    5
14
   Group Size
14
```

```
plt.figure(figsize=(18,8))
sns.heatmap(df.corr(),annot=True)
plt.show()
```



df2.head()			
	Name	Email	Gender Date of
Birth \ 0	Pavan Kalyan	pavankalyanc162@gmail.com	Male 2003-
12-17 1 Shaik Hale 07-13	eema saadiya	saadiyashaik13@gmail.com	Female 2003-
2 07-29	Swetha	r190311@rguktrkv.ac.in	Female 2004-
3	Chandu	r190266@rguktrkv.ac.in	Male 2004-
08-19 4 06-10	G.Praharsha	r190411@rguktrkv.ac.in	Female 2004-
Study Year 0 Enng-3 1 Enng-3 2 Enng-3 3 Enng-3 4 Enng-3			
	Select all that	ources of stress are most s apply) \ nily, Relationship, Health	significant in
1		Acedamics	
2		Acedamics	
3 1	Work, Acedamics	, Relationship, Financial	

```
4
          Acedamics, Relationship, Financial, Health
 Are you facing a lack of concentration. \
0
                          Completely agree
1
                                    Neutral
2
                             Somewhat agree
3
                            Somewhat agree
4
                          Completely agree
 Are you facing problems with making decisions ? \
0
                                   Completely agree
1
                                Completely disagree
2
                                     Somewhat agree
3
                                   Completely agree
4
                                   Completely agree
 You feel, your life is sad, as there is no joy in your life anymore
/
0
                                     Completely agree
1
                                  Completely disagree
                                  Completely disagree
2
3
                                  Completely disagree
                                              Neutral
 You have been very irritated and angry recently and having mood
swings
                                     Completely agree
1
                                              Neutral
2
                                              Neutral
                                              Neutral
                                              Neutral
  Little interest or pleasure in doing things, you enjoy or Feel to
have less interaction with Social network.
                                                  Yes
                                                  Yes
2
                                                  Yes
```

```
3
                                                  Yes
                                                  Yes
  Do you observed changes in food habits? \
0
                                        No
1
                                       Yes
2
                                       Yes
3
                                        No
4
                                        No
  How often do you experience trouble sleeping \
0
                                      Frequently
1
                                          Rarely
2
                                           Never
3
                                           Never
4
                                          Rarely
   Do you often experience physical symptoms like headaches or muscle
tension when stressed?
                                           Frequently
                                        Occassionally
1
2
                                                Never
3
                                               Rarely
                                        Occassionally
                                   View of yourself? \
  You see yourself as equally worthwhile as others
  You see yourself as equally worthwhile as others
1
  You see yourself as equally worthwhile as others
  You see yourself as equally worthwhile as others
4 You see yourself as equally worthwhile as others
  Thoughts that you would be better off dead, or of hurting yourself
in some way?
0
                                     Completely agree
1
                                  Completely disagree
2
                                  Completely disagree
3
                                       Somewhat agree
                                       Somewhat agree
```

```
How would you rate your overall stress level on a scale from 1
                  [ Stress Level]
(low) to 5 (high)
                                                     5
                                                     1
1
                                                     3
3
                                                     2
                                                     3
  Overall, do you believe that stress significantly affects your daily
life and well-being?
                                   Yes, significantly
                                  Yes, to some extent
1
2
                                   Yes, significantly
3
                                       No, not at all
                                   Yes, significantly
     Age
   20-25
0
  20-25
1
  20-25
3
  20-25
4 20-25
```

Changes observed in food habits vs Age group

```
Food Habits df=df2[df2["Do you observed changes in food
habits?"]=='Yes']
Food_Habits_df
                        Name
                                                      Email
                                                             Gender \
1
     Shaik Haleema saadiva
                                  saadiyashaik13@gmail.com
                                                             Female
2
                     Swetha
                                    r190311@rguktrkv.ac.in
                                                             Female
5
               Jagathi Sri
                                  jagathisri9059@gmail.com
                                                             Female
7
                                  Yachampoojitha@gmail.com
           Yacham poojitha
                                                             Female
8
                                     saigeetha4u@gmail.com
                    prudhvi
                                                               Male
                                                                . . .
608
           P Gowtham reddy
                                    gowtham93920@gmail.com
                                                               Male
609
        CHINTHALA KARTHEEK
                              kartheekchinthala1@gmail.com
                                                               Male
610
                      Joyal
                              swarnalathamallori@gmail.com
                                                               Male
```

```
612
               K Uday Kiran
                                                               Male
                                   o230774@rguktrkv.ac.in
613
          Empuluri Lakshmi
                                    r220237@rguktrkv.ac.in Female
    Date of Birth
                              Study Year \
       2003-07-13
                                  Enng-3
1
2
       2004-07-29
                                  Enng-3
5
       2003-09-17
                                  Enng-3
7
                                  Enng-3
       2004-05-03
8
       1999-01-09
                                Degree-3
       2008-03-06
608
                    Inter First Year/P1
609
       2005-01-24
                   Inter Second Year/P2
610
       2008-06-03
                    Inter First Year/P1
                    Inter First Year/P1
612
       2007-03-03
613
       2007-01-03 Inter Second Year/P2
    Which of the following sources of stress are most significant in
your life? (Select all that apply)
                                               Acedamics
2
                                               Acedamics
5
                                               Acedamics
     Family, Work, Acedamics, Relationship, Financi...
8
                                Relationship, Financial
608
                                               Acedamics
609
                                               Financial
610
                                               Acedamics
612
                                                    Work
613
                                               Acedamics
    Are you facing a lack of concentration.
1
                                      Neutral
2
                               Somewhat agree
5
                               Somewhat agree
7
                          Completely disagree
8
                          Completely disagree
                             Completely agree
608
609
                               Somewhat agree
                                      Neutral
610
```

612 613	Neutral Somewhat agree
	re you facing problems with making decisions ? Completely disagree Somewhat agree Neutral Completely disagree Completely disagree Somewhat agree Somewhat agree Neutral Completely agree
anym 1	ou feel, your life is sad, as there is no joy in your life re \ Completely disagree
2	Completely disagree
5	Somewhat agree
7	Neutral
8	Completely disagree
608	Completely agree
609	Neutral
610	Neutral
612	Completely agree
613	Neutral
swin	ou have been very irritated and angry recently and having mood s \
1	Neutral
2	Neutral
5	Neutral
7	Neutral

8	Neutral
	•••
608	Completely agree
609	Completely agree
610	Somewhat agree
612	Neutral
613	Somewhat agree
L have 1	ttle interest or pleasure in doing things, you enjoy or Feel to ess interaction with Social network. \ Yes
2	Yes
5	No
7	Yes
8	No
608	Yes
609	No
610	Yes
612	Yes
613	Yes
D 1 2 5 7 8 608 609 610 612	you observed changes in food habits? \ Yes

```
613
                                         Yes
    How often do you experience trouble sleeping ∖
1
                                            Rarely
2
                                             Never
5
                                            Rarely
7
                                        Frequently
8
                                        Frequently
608
                                        Frequently
609
                                            Rarely
610
                                     Occassionally
612
                                            Rarely
613
                                            Rarely
     Do you often experience physical symptoms like headaches or
muscle tension when stressed?
                                          Occassionally
2
                                                   Never
5
                                          Occassionally
                                              Frequently
                                                   Never
608
                                                   Never
609
                                                  Rarely
610
                                              Frequently
612
                                                  Rarely
613
                                                   Never
                                      View of yourself? \
      You see yourself as equally worthwhile as others
1
2
      You see yourself as equally worthwhile as others
      You see yourself as equally worthwhile as others
5
     You Feel more self blaming ,for every mistakes...
7
      You see yourself as equally worthwhile as others
8
608
            You Feel like You Cause Problems to Others
609
      You see yourself as equally worthwhile as others
     You Feel more self blaming ,for every mistakes...
610
     You Feel more self blaming , for every mistakes...
612
```

613 You Feel more self blaming ,f	for every mistakes
Thoughts that you would be bet in some way? \	cter off dead, or of hurting yourself
1	Completely disagree
2	Completely disagree
5	Completely disagree
7	Completely agree
8	Completely disagree
608	Somewhat agree
609	Completely disagree
610	Somewhat agree
612	Completely disagree
613	Somewhat agree
How would you rate your overa (low) to 5 (high) [Stress Level]	all stress level on a scale from 1
1	1
2	3
5	3
7	5
8	5
608	4
609	2
610	3
612	1
613	1

```
Overall, do you believe that stress significantly affects your
daily life and well-being?
1
                                     Yes, to some extent
2
                                      Yes, significantly
5
                                      Yes, significantly
                                      Yes, significantly
8
                                      Yes, significantly
                                      Yes, significantly
608
609
                                      Yes, significantly
610
                                      Yes, significantly
612
                                          No, not at all
613
                                      Yes, significantly
       Age
     20-25
1
2
     20-25
5
     20-25
7
     20-25
8
       NaN
     16-18
608
     18-20
609
610
     16-18
612
     16-18
     16-18
613
[291 rows x 19 columns]
Food_Habits_df.Age.value_counts()
18-20
         130
20-25
          83
16-18
          75
14-16
           1
10-12
           0
12-14
Name: Age, dtype: int64
```

• From above analysis we can observe that in the age group 16-18 observed changes in their food habits, while experiencing stress.

Sleeping effect according to Age group

```
Sleeping Effect df=df2[~(df2["How often do you experience trouble
sleeping "]=='Never') ]
Sleeping Effect df
                                                                   Email
                                   Name
0
                           Pavan Kalyan
                                              pavankalyanc162@gmail.com
1
                Shaik Haleema saadiya
                                               saadiyashaik13@gmail.com
                            G. Praharsha
                                                 r190411@rguktrkv.ac.in
5
                           Jagathi Sri
                                               jagathisri9059@gmail.com
                                           sriramulaleela2004@gmail.com
                                S.Leela
610
                                  Joyal
                                           swarnalathamallori@gmail.com
611
     Patnam.Sri venkata Sambasiva rao
                                          sambasivaraopatnam4@gmail.com
612
                           K Uday Kiran
                                                o230774@rguktrkv.ac.in
613
                      Empuluri Lakshmi
                                                 r220237@rguktrkv.ac.in
614
                                         lakkuntarohithyadav@gmail.com
                       Lakkunta Rohith
                Gender Date of Birth
                                                  Study Year \
0
                  Male
                           2003 - 12 - 17
                                                      Enng-3
1
                           2003-07-13
                 Female
                                                      Enng-3
4
                Female
                           2004-06-10
                                                      Ennq-3
5
                           2003-09-17
                Female
                                                      Enng-3
6
     Prefer Not To Say
                           2004-06-13
                                                      Enng-3
                                         Inter First Year/P1
610
                  Male
                           2008-06-03
611
                  Male
                           2006-01-24
                                       Inter Second Year/P2
                           2007-03-03
                                         Inter First Year/P1
612
                  Male
                                       Inter Second Year/P2
613
                Female
                           2007-01-03
                           2007-11-08
                                         Inter First Year/P1
614
                  Male
    Which of the following sources of stress are most significant in
your life? (Select all that apply)
                           Family, Relationship, Health
```

1	Acedamics
4	Acedamics, Relationship, Financial, Health
5	Acedamics
6	Family, Acedamics, Financial
610	Acedamics
611	Work, Acedamics, Financial
612	Work
613	Acedamics
614	Family, Work, Acedamics
Are you 0 1 4 5 6 610 611 612 613 614	facing a lack of concentration. Completely agree Neutral Completely agree Somewhat agree Completely agree Neutral Somewhat agree Neutral Somewhat agree Completely agree Completely agree
	facing problems with making decisions ? Completely agree Completely agree Neutral Somewhat agree Somewhat agree Completely agree Neutral Completely agree Completely agree Completely agree Completely agree Completely agree Completely agree
You feel anymore \	l, your life is sad, as there is no joy in your life Completely agree

1	Completely disagree
4	Neutral
5	Somewhat agree
6	Neutral
610	Neutral
611	Neutral
612	Completely agree
613	Neutral
614	Somewhat agree
You have been very swings \	irritated and angry recently and having mood Completely agree
1	Neutral
4	Neutral
5	Neutral
6	Somewhat agree
610	Somewhat agree
611	Somewhat agree
612	Neutral
613	Somewhat agree
614	Completely agree
Little interest or have less interaction of	pleasure in doing things, you enjoy or Feel to with Social network. \ Yes Yes

4	Yes
5	No
6	Yes
610	Yes
611	Yes
612	Yes
613	Yes
614	Yes
0 1 4 5 6	Do you observed changes in food habits? \ No Yes No Yes No Yes No
610 611 612 613 614	Yes No Yes Yes No
0 1 4 5 6 610 611 612 613	How often do you experience trouble sleeping Frequently Rarely Rarely Rarely Rarely Coccassionally Occassionally Rarely Rarely Rarely Rarely Rarely Rarely
614 musc	Frequently Do you often experience physical symptoms like headaches or the cle tension when stressed? \
0	Frequently
1	Occassionally

4	Occassionally		
5	Occassionally		
6	Occassionally		
610	Frequently		
611	Frequently		
612	Rarely		
613	Never		
614	Frequently		
-	, roqueey		
0 1 4 5 6	View of yourself? \ You see yourself as equally worthwhile as others You Feel like You Cause Problems to Others		
610 611 612 613 614	610 You Feel more self blaming ,for every mistakes 611 You Feel like You Cause Problems to Others 612 You Feel more self blaming ,for every mistakes 613 You Feel more self blaming ,for every mistakes		
Thoughts that you would be better off dead, or of hurting yourself in some way? \			
0	Completely agree		
1	Completely disagree		
4	Somewhat agree		
5	Completely disagree		
6	Completely disagree		
610	Somewhat agree		
611	Completely disagree		
612	Completely disagree		

613	Somewhat agree
614	Completely agree
How would you rate (low) to 5 (high) [St	e your overall stress level on a scale from 1 tress Level] \ 5
1	1
4	3
5	3
6	2
610	3
611	3
612	1
613	1
614	4
Overall, do you be daily life and well-be:	lieve that stress significantly affects your ing? \ Yes, significantly
1	Yes, to some extent
4	Yes, significantly
5	Yes, significantly
6	Yes, significantly
610	Yes, significantly
611	Yes, significantly
612	No, not at all
613	Yes, significantly

```
614
                                      Yes, significantly
       Age
0
     20-25
1
     20-25
4
     20-25
5
     20-25
6
     20-25
     16-18
610
     18-20
611
612
     16-18
613 16-18
614 16-18
[489 rows x 19 columns]
Sleeping Effect df.shape
(489, 19)
Sleeping Effect df.Age.value counts()
18-20
         216
20-25
         138
16-18
         131
14-16
           1
10-12
           0
12-14
Name: Age, dtype: int64
```

From the above analysis in the age group 16-18 people suffering from sleep while their experiencing the stress

```
Sleeping_Effect_df["How often do you experience trouble sleeping
"].value_counts()

Rarely 199
Frequently 161
Occassionally 129
Name: How often do you experience trouble sleeping , dtype: int64
```

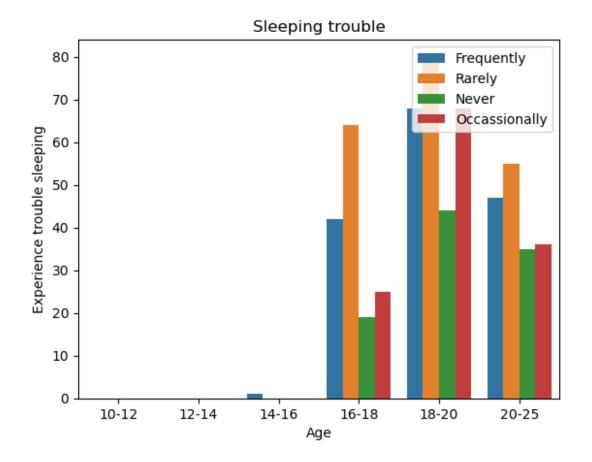
Many students are rarely suffering from the sleep, while their experiencing the stress

```
sleeping_trouble=pd.pivot_table(df2,values="How often do you
experience trouble sleeping ",index='Age')
C:\Users\Arigala.Adarsh\AppData\Local\Temp\
ipykernel_8512\2365003257.py:1: FutureWarning: Dropping invalid
```

```
columns in DataFrameGroupBy.mean is deprecated. In a future version, a
TypeError will be raised. Before calling .mean, select only columns
which should be valid for the function.
    sleeping_trouble=pd.pivot_table(df2,values="How often do you
experience trouble sleeping ",index='Age')

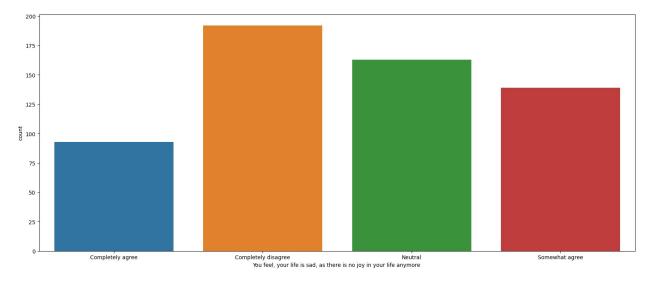
# Creating the pivot table
sns.countplot(data=df2, x='Age', hue='How often do you experience
trouble sleeping ')
# Plotting

plt.legend()
plt.xlabel('Age')
plt.ylabel('Experience trouble sleeping')
plt.title('Sleeping trouble')
plt.show()
```



How many of deeling life is sad, as there is no joy in your life anymore

df['You feel, your life is sad, as there is no joy in your life
anymore '].unique()



```
l=list(df['You feel, your life is sad, as there is no joy in your life
anymore '].unique())
d={}
for i in l:
    c=df[df['You feel, your life is sad, as there is no joy in your
life anymore ']==i]['You feel, your life is sad, as there is no joy in
your life anymore '].count()
    d[i]=c
print(d)

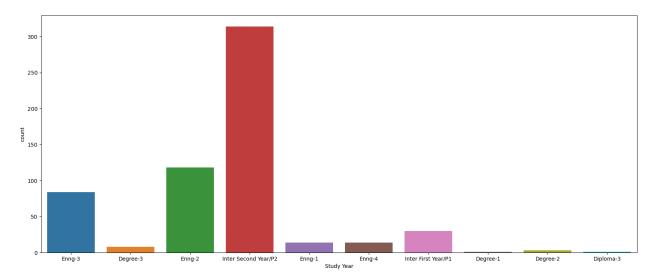
{'Completely agree': 93, 'Completely disagree': 192, 'Neutral': 163,
'Somewhat agree': 139}
```

 From the above analysis we can say that many of the people not feeling like life is sad, as there is no joy in life anymore

Which Study Year People are suffering more?

```
plt.figure(figsize=(20,8))
sns.countplot(study_year['Study Year'])
plt.show()

C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
   _decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
   warnings.warn(
```



```
l=list(df['Study Year'].unique())
d={}
for i in l:
    c=df[df['Study Year']==i]['Study Year'].count()
    d[i]=c
print(d)

{'Enng-3': 84, 'Degree-3': 8, 'Enng-2': 118, 'Inter Second Year/P2':
314, 'Enng-1': 14, 'Enng-4': 14, 'Inter First Year/P1': 30, 'Degree-1': 1, 'Degree-2': 3, 'Diploma-3': 1}
```

 From the Above analysis we can say that Inter Second Year/P2 People are suffering more stress

```
Inter_second_year=df[df['Study Year']=='Inter Second Year/P2']
Inter_second_year_groupby=Inter_second_year.groupby('Which of the following sources of stress are most significant in your life? (Select all that apply) ' )
```

<pre>Inter_second_year_groupby.apply(lambda x: x.head(</pre>	5))	
Name \ Which of the following sources of stress are mo		
Acedamics Suryakumar	15	Harshitha
Neeraja	39 127	
Tejasree	129	
A.Sasikala	130	Emmareddy
Sruthi 		
Work, Health Manasa Reddy	314	
manikanta	415	Revanth
	536	GUNAPARTI
BALAJI Work, Relationship	334	SAKE GOUTHAM
MATHUR	514	
Gnaneshwar		
<pre>Email \ Which of the following sources of stress are mo</pre>		
Acedamics Www.harshithasuryakumar@gmail.com	15	
	39	
neeraja.kuttuboina@gmail.com	127	
R220897 @rguktrkv.ac.in	129	
r220958@rguktrkv.ac.in	130	
r220997@rguktrkv.ac.in		
Work, Health	314	
mn8471.reddy@gmail.com	415	
o220582@rguktrkv.ac.in	536	

o220592@rguktrkv.ac.in Work, Relationship gouthammathur1537@gmail.com	334	
gnaneshwarmada@gmail.com	514	
Birth \ Which of the following sources of stress are mo		Gender Date of
Acedamics 2007-06-05	15	Female
2006 - 12 - 03	39	Female
2006-10-24	127	Female
2008-02-20	129	Female
2007-06-18	130	Female
Work, Health 2006-09-20	314	Female
2005 - 12 - 26	415	Male
2006 - 07 - 17	536	Male
Work, Relationship 2007-08-09	334	Male
2008 - 07 - 02	514	Male
Study Year \ Which of the following sources of stress are mo		
Acedamics Year/P2	15	Inter Second
Year/P2	39	Inter Second
Year/P2	127	Inter Second
Year/P2	129	Inter Second
Year/P2	130	Inter Second
Work, Health	314	Inter Second

V (D2		
Year/P2	415	Inter Second
Year/P2	536	Inter Second
Year/P2 Work, Relationship	334	Inter Second
Year/P2	514	Inter Second
Year/P2	314	Tirter Second
following sources of stress are most significant i all that apply) \ Which of the following sources of stress are mo	n you	Which of the Ir life? (Select
Acedamics Acedamics	15	
	39	
Acedamics	127	
Acedamics	129	
Acedamics	130	
Acedamics		
Work, Health Work, Health	314	
Work, Health	415	
	536	
Work, Health Work, Relationship	334	
Work, Relationship	514	
Work, Relationship	514	
		A
a lack of concentration. \ Which of the following sources of stress are mo		Are you facing
Acedamics	15	
Somewhat agree	39	
Completely agree	127	
Somewhat agree		

Completely agree	129
Completely agree	130
Completely agree	
Work, Health	314
Somewhat agree	415
Somewhat agree	F.2.6
Somewhat agree	536
Work, Relationship Somewhat agree	334
Somewhat agree	514
Somewhat agree	
problems with making decisions ? \	Are you facing
Which of the following sources of stress are mo.	
Acedamics	15
Completely agree	39
Completely agree	127
Neutral	127
Somewhat agree	129
	130
Somewhat agree	
Work, Health	314
Neutral	415
Somewhat agree	536
Completely disagree	
Work, Relationship Completely agree	334
	514
Somewhat agree	
life is sad, as there is no joy in your life any Which of the following sources of stress are mo.	
Acedamics	15
Completely disagree	

Completely agree	39
	127
Somewhat agree	129
Neutral	130
Completely disagree	
Work, Health Completely disagree	314
	415
Neutral	536
Completely disagree Work, Relationship	334
Completely disagree	514
Somewhat agree	
very irritated and angry recently and having Which of the following sources of stress and the stress are stress.	
Acedamics Somewhat agree	15
Completely agree	39
	127
Somewhat agree	129
Completely agree	130
Completely disagree	
Work, Health	314
Completely agree	415
Completely agree	536
Completely disagree Work, Relationship Neutral	334
Completely disagree	514
or pleasure in doing things, you enjoy or F	Little interest Feel to have less

<pre>interaction with Social network. \ Which of the following sources of stress are mo</pre>	
Acedamics No	15
	39
Yes	127
No	129
Yes	130
Yes	
Work, Health No	314
Yes	415
	536
Yes Work, Relationship Yes	334
Yes	514
changes in food habits? \ Which of the following sources of stress are mo	Do you observed
Acedamics	15
No	39
No	127
No	129
Yes	130
No 	130
Work, Health Yes	314
	415
Yes	536
Yes Work, Relationship Yes	334

No No How often do you experience trouble sleeping \ Which of the following sources of stress are mo Acedamics Rarely Never Frequently Occassionally Rarely Work, Health Occassionally Rarely Frequently Work, Relationship Never Rarely Araly Aredamics Aredamics Never Aredamics Aredamics Never 127 Frequently Frequently Frequently 129 Frequently Frequently 130 Rarely				
you experience trouble sleeping Which of the following sources of stress are mo Acedamics Rarely 39 Never 127 Frequently 129 Occassionally 130 Rarely 130 Rarely 130 Work, Health 314 Occassionally 1415 Rarely 536 Frequently 536 Frequently 536 Frequently 536 Frequently 536 Frequently 536 Frequently 536 Acedamics Do you often experience physical symptoms like headaches or muscle tension when stressed? \ Which of the following sources of stress are mo Acedamics 15 Never 39 Never 127 Frequently 129 Frequently 130	No	514		
Which of the following sources of stress are mo Acedamics 15 Rarely 39 Never 127 Frequently 129 Occassionally 130 Rarely 130 Rarely 1415 Rarely 536 Frequently 536 Frequently 536 Frequently 536 Frequently 534 Never 514 Rarely 515 Rarely 516 Rarely 517 Rarely 518 Rarely 519 Rarely 51		How often do		
Rarely Never Frequently Occassionally Rarely Work, Health Occassionally Rarely Frequently Work, Relationship Never Sanely Experience physical symptoms like headaches or muscle tension when stressed? Which of the following sources of stress are mo Acedamics Never Acedamics Never 15 Never 17 Frequently Never 19 Never 19 Frequently 19 Frequently 19 Frequently 19 Frequently 19 Frequently 11				
Never Frequently 129 Occassionally Rarely Work, Health Occassionally 415 Rarely 536 Frequently Work, Relationship Work, Relationship Saver Solution Experience physical symptoms like headaches or muscle tension when stressed? Which of the following sources of stress are mo Acedamics Never 127 Frequently Frequently 130				
Frequently Occassionally 130 Rarely Work, Health Occassionally 415 Rarely 536 Frequently Work, Relationship Never 514 Rarely Do you often experience physical symptoms like headaches or muscle tension when stressed? \Which of the following sources of stress are mo Acedamics Never 15 Never 127 Frequently Frequently 130	Never			
Occassionally Rarely Work, Health Occassionally Rarely Frequently Work, Relationship Work, Relationship Rarely Do you often experience physical symptoms like headaches or muscle tension when stressed? Which of the following sources of stress are mo Acedamics Never 15 Never 17 Frequently Frequently 130	Frequently			
Rarely Work, Health Occassionally 415 Rarely 536 Frequently Work, Relationship Never 514 Rarely Do you often experience physical symptoms like headaches or muscle tension when stressed? Which of the following sources of stress are mo Acedamics Never 39 Never 127 Frequently Frequently 129 Frequently 130	Occassionally			
Work, Health Occassionally 415 Rarely 536 Frequently Work, Relationship Never 514 Rarely Do you often experience physical symptoms like headaches or muscle tension when stressed? \ Which of the following sources of stress are mo Acedamics Never 39 Never 127 Frequently Frequently 130		130		
Rarely Frequently Work, Relationship Never Rarely Do you often experience physical symptoms like headaches or muscle tension when stressed? \ Which of the following sources of stress are mo Acedamics Never 15 Never 127 Frequently Frequently 129 Frequently 130	Work, Health	314		
Frequently Work, Relationship Never S14 Rarely Do you often experience physical symptoms like headaches or muscle tension when stressed? \ Which of the following sources of stress are mo Acedamics Never S15 Never 127 Frequently Frequently 129 Frequently 130		415		
Work, Relationship Never 514 Rarely Do you often experience physical symptoms like headaches or muscle tension when stressed? \ Which of the following sources of stress are mo Acedamics Never 39 Never 127 Frequently Frequently 129 Frequently		536		
Rarely Do you often experience physical symptoms like headaches or muscle tension when stressed? \ Which of the following sources of stress are mo Acedamics Never 39 Never 127 Frequently 129 Frequently 130	Work, Relationship	334		
Do you often experience physical symptoms like headaches or muscle tension when stressed? \ Which of the following sources of stress are mo Acedamics 15 Never 39 Never 127 Frequently 129 Frequently 130	Rarely	514		
Never 39 Never 127 Frequently 129 Frequently 130	Do you often experience physical symptoms like headaches or muscle tension when stressed? \			
Never 127 Frequently 129 Frequently 130		15		
Frequently 127 Frequently 129 Frequently 130		39		
Frequently 130		127		
130		129		
Rarely	Frequently	130		
	Rarely			
Work, Health 314 Occassionally		314		
415	occassionaccy	415		

Occassionally			
Frequently	536		
Work, Relationship	334		
Never	514		
Never			
View of yourself? \ Which of the following sources of stress are mo			
Acedamics self blaming ,for every mistakes	15	You Fee	l more
	39	You se	е
yourself as equally worthwhile as others	127		You
Feel like You Cause Problems to Others	129	You Fee	l more
self blaming ,for every mistakes	130	You se	۵
yourself as equally worthwhile as others	150	100 30	_
Work, Health	314	You se	е
yourself as equally worthwhile as others	415	You se	e
yourself as equally worthwhile as others	536	You se	<u>م</u>
yourself as equally worthwhile as others			
Work, Relationship self blaming ,for every mistakes	334	You Fee	
self blaming ,for every mistakes	514	You Fee	l more
you would be better off dead, or of hurting yourse Which of the following sources of stress are mo		Thoughts some wa	
Acedamics Completely disagree	15		
Somewhat agree	39		
	127		
Completely disagree	129		
Somewhat agree	130		
Completely disagree			

Work, Health	314
Somewhat agree	415
Completely disagree	536
Somewhat agree	
Work, Relationship Completely disagree	334
Somewhat agree	514
Somewhat agree	
rate your overall stress level on a scale from 1 [Stress Level] \	How would you (low) to 5 (high)
Which of the following sources of stress are mo	
Acedamics	15
3	39
4	127
3	129
3	
2	130
Work, Health	314
3	415
2	536
4 Work, Relationship	334
2	
3	514
	Overall, do you
believe that stress significantly affects your date	
<pre>being? \ Which of the following sources of stress are mo</pre>	
Acedamics	15
Yes, significantly	39
Yes, significantly	
	127

```
Yes, significantly
                                                     129
Yes, significantly
                                                     130
No, not at all
. . .
. . .
Work, Health
                                                    314
Yes, significantly
                                                    415
Yes, significantly
                                                    536
Yes, significantly
Work, Relationship
                                                    334
No, not at all
                                                    514
No, not at all
                                                           Age
Which of the following sources of stress are mo...
                                                    15
                                                          17.0
Acedamics
                                                          18.0
                                                    39
                                                          18.0
                                                     127
                                                          16.0
                                                    129
                                                     130
                                                          17.0
Work, Health
                                                    314
                                                          18.0
                                                    415
                                                          19.0
                                                    536
                                                         18.0
Work, Relationship
                                                    334
                                                         17.0
                                                         16.0
                                                    514
[138 rows x 19 columns]
group sizes df =
Inter second year groupby.size().reset index(name='Group Size')
# Find the row with the maximum size
max group row = group sizes df[group sizes df['Group Size'] ==
group sizes df['Group Size'].max()]
# Display the row with the maximum size
max_group_row
 Which of the following sources of stress are most significant in
your life? (Select all that apply)
0
                                            Acedamics
```

```
Group Size
0 103
```

 From the Above analysis we can say that Inter Second Year/P2 Students are Feeling Stress more from Acedamics

Age Categorie of Inter Second Year/P2 Students

```
group_by_age
group_sizes_df = group_by_age.size().reset_index(name='Group Size')

# Find the row with the maximum size
max_group_row = group_sizes_df[group_sizes_df['Group Size'] ==
group_sizes_df['Group Size'].max()]

# Display the row with the maximum size
max_group_row

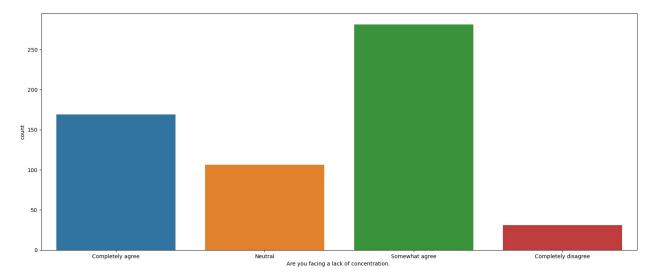
Age Group Size
4 18-20 260
```

Effect of Concentration

```
lack of concentration=df2['Are you facing a lack of concentration. ']
lack of concentration
0
       Completely agree
1
                Neutral
2
         Somewhat agree
3
         Somewhat agree
4
       Completely agree
611
         Somewhat agree
612
                Neutral
613
         Somewhat agree
614
       Completely agree
       Completely agree
Name: Are you facing a lack of concentration. , Length: 587, dtype:
object
plt.figure(figsize=(20,8))
sns.countplot(lack of concentration)
plt.show()
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
_decorators.py:36: FutureWarning: Pass the following variable as a
```

keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

warnings.warn(

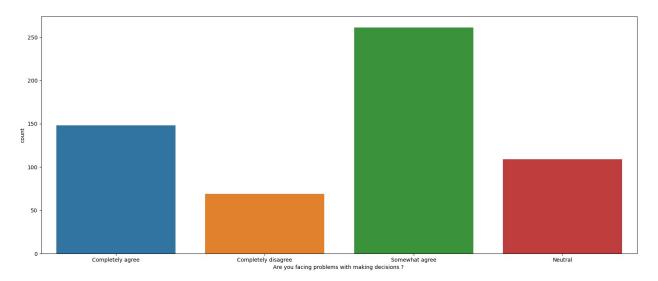


Many of the student not losing concentration they partially agree

Are they facing problems with making decisions or not?

```
decision_making=df['Are you facing problems with making decisions ? ']
plt.figure(figsize=(20,8))
sns.countplot(decision_making)
plt.show()

C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
   _decorators.py:36: FutureWarning: Pass the following variable as a
keyword arg: x. From version 0.12, the only valid positional argument
will be `data`, and passing other arguments without an explicit
keyword will result in an error or misinterpretation.
   warnings.warn(
```



Many of the student not facing dificult in decison making when they feeling stress

How many have observed changes in food habits?

There were observed changes in food habits for both "Yes" (291) and "No" (296) responses.

How many often experience physical symptoms like headaches or muscle tension when stressed?

```
group_by_physical_symptoms=df2.groupby([' Do you often experience
physical symptoms like headaches or muscle tension when stressed?
',],as_index='False')
group_sizes_df =
group_by_physical_symptoms.size().reset_index(name='Group Size')
group_sizes_df
Do you often experience physical symptoms like headaches or muscle
tension when stressed? \
```

```
0
                                               Frequently
1
                                                     Never
2
                                            Occassionally
3
                                                    Rarely
   Group Size
0
           145
1
           100
2
           140
3
           202
```

 The data suggests that individuals frequently experience physical symptoms like headaches or muscle tension when stressed, with occasional occurrences being the next most common response.

```
symptoms = df2[['Age', ' Do you often experience physical symptoms
like headaches or muscle tension when stressed? '] ]
group by physical symptoms Age = symptoms.groupby(['Age'],
as index=False)
group sizes df = group by physical symptoms Age.size()
group_sizes_df
     Age
         size
  10-12
             0
  12-14
1
             0
2
  14-16
             1
3
  16-18
           150
4
  18-20
           260
5
  20-25
           173
```

- The majority of individuals falling within the age group of 16-18 reported experiencing physical symptoms like headaches or muscle tension when stressed, with a total count of 150.
- Age groups 10-12, 12-14, and 20-25 showed no reported instances of experiencing physical symptoms when stressed, each with a count of 0.
- There's a minimal number of individuals aged 14-16 and 20-25, each with 1 reported instance of experiencing physical symptoms when stressed.

Thoughts that you would be better off dead, or of hurting yourself in some way?

```
group_by_Thoughts=df2.groupby(['Thoughts that you would be better off
dead, or of hurting yourself in some way? ',],as index='False')
group sizes thoughts =
group by Thoughts.size().reset index(name='Group Size')
group sizes thoughts
  Thoughts that you would be better off dead, or of hurting yourself
in some way?
                                     Completely agree
1
                                  Completely disagree
2
                                       Somewhat agree
   Group Size
0
           56
1
          372
2
          159
```

- 372 individuals completely disagree with the thought that they would be better off dead or of hurting themselves in some way.
- 159 individuals somewhat agree with the thought.
- 56 individuals completely agree with the thought.
- This suggests varying levels of agreement with potentially concerning thoughts among the surveyed individuals.

```
group_by_believe=df2.groupby(['Overall, do you believe that stress
significantly affects your daily life and well-being?
',],as_index='False')
group_sizes_believe = group_by_believe.size().reset_index(name='Group Size')
group_sizes_believe
Overall, do you believe that stress significantly affects your daily life and well-being? \
No, not at all

Yes, significantly
Yes, to some extent
Group Size
```

```
0 155
1 431
2 1
```

- 431 individuals believe that stress significantly affects their daily life and well-being.
- 155 individuals do not believe that stress affects their daily life and well-being at all.
- There is 1 individual who believes stress affects their daily life and well-being to some extent.
- This indicates a significant portion of individuals acknowledging the impact of stress on their daily lives and well-being.

```
believe= df2[['Age','Overall, do you believe that stress significantly
affects your daily life and well-being? '] ]
group by believe Age = believe.groupby(['Age'], as index=False)
group sizes believe Age group = group by believe Age.size()
group_sizes_believe_Age_group
    Age size
0
  10-12
             0
1
  12-14
             0
2
  14-16
             1
  16-18
           150
4
  18-20
           260
5 20-25
           173
```

- Among individuals aged 16-18, a significant portion of 150 individuals acknowledge that stress significantly affects their daily life and well-being.
- Individuals aged 18-20 show a higher awareness, with 260 individuals believing that stress has a significant impact.
- In the age group of 20-25, 173 individuals also recognize the significant effect of stress on their daily lives.
- Age groups 10-12 and 12-14 exhibit no reported instances of individuals believing stress significantly affects their daily life and well-being.
- This suggests that as individuals grow older, they tend to become more aware of the impact of stress on their lives, with a notable increase in acknowledgment during late adolescence and early adulthood.