GPA Data Analysis
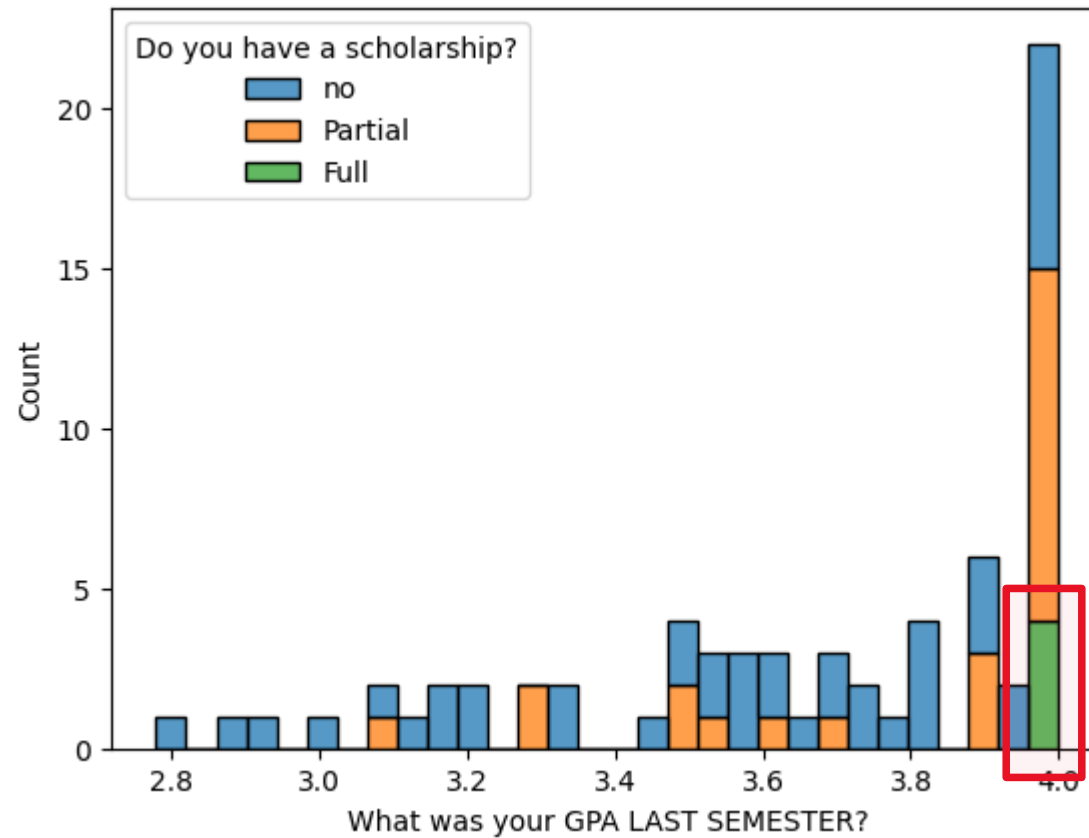
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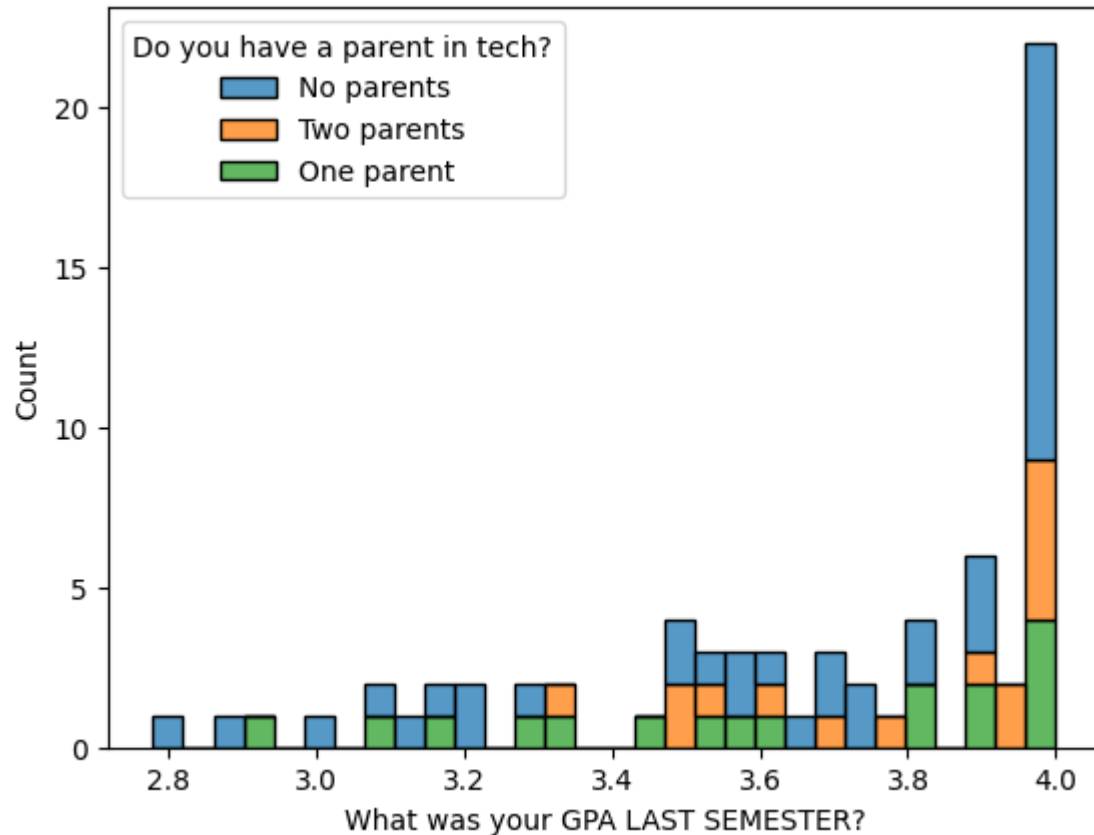
HW-5 DATA602

Students with low or average GPA don't get Scholarship

Everyone getting full scholarship has GPA greater than 3.9

Students with Two parents most likely wont be in bottom quarter of students in terms of GPA


```
df_raw["What was your GPA LAST SEMESTER?"].describe()

count    70.000000
mean      3.668700
std       0.340773
min       2.780000
25%       3.494750
50%       3.753000
75%       3.997500
max       4.000000
```

25% class scored less than 3.49 GPA

Below this range which is above 3.4 GPA we only have one student with both parents that means if you have 2 parents then most likely you wont be in bottom 25% students

Both Semester were equally challanging

Statistics analysis shows us that both semester has similar distribution, like having similar mean, standard deviation and percentiles
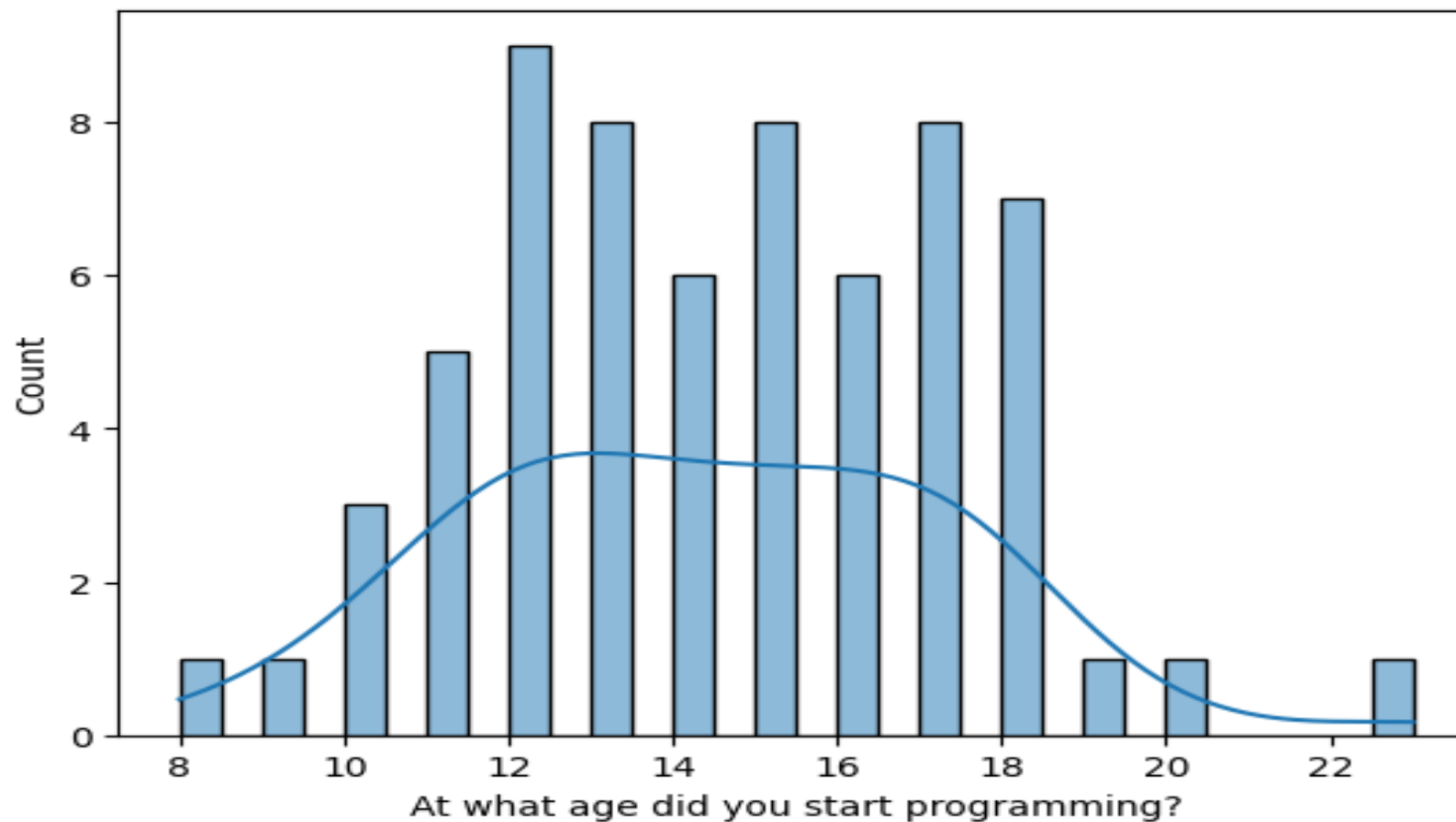
```python
df_raw["What was your GPA LAST SEMESTER?"].describe()
```

```
count    70.000000
mean      3.668700
std       0.340773
min       2.780000
25%       3.494750
50%       3.753000
75%       3.997500
max       4.000000
```

```python
df_raw["What was your GPA THE SEMESTER BEFORE THAT?"].describe()
```
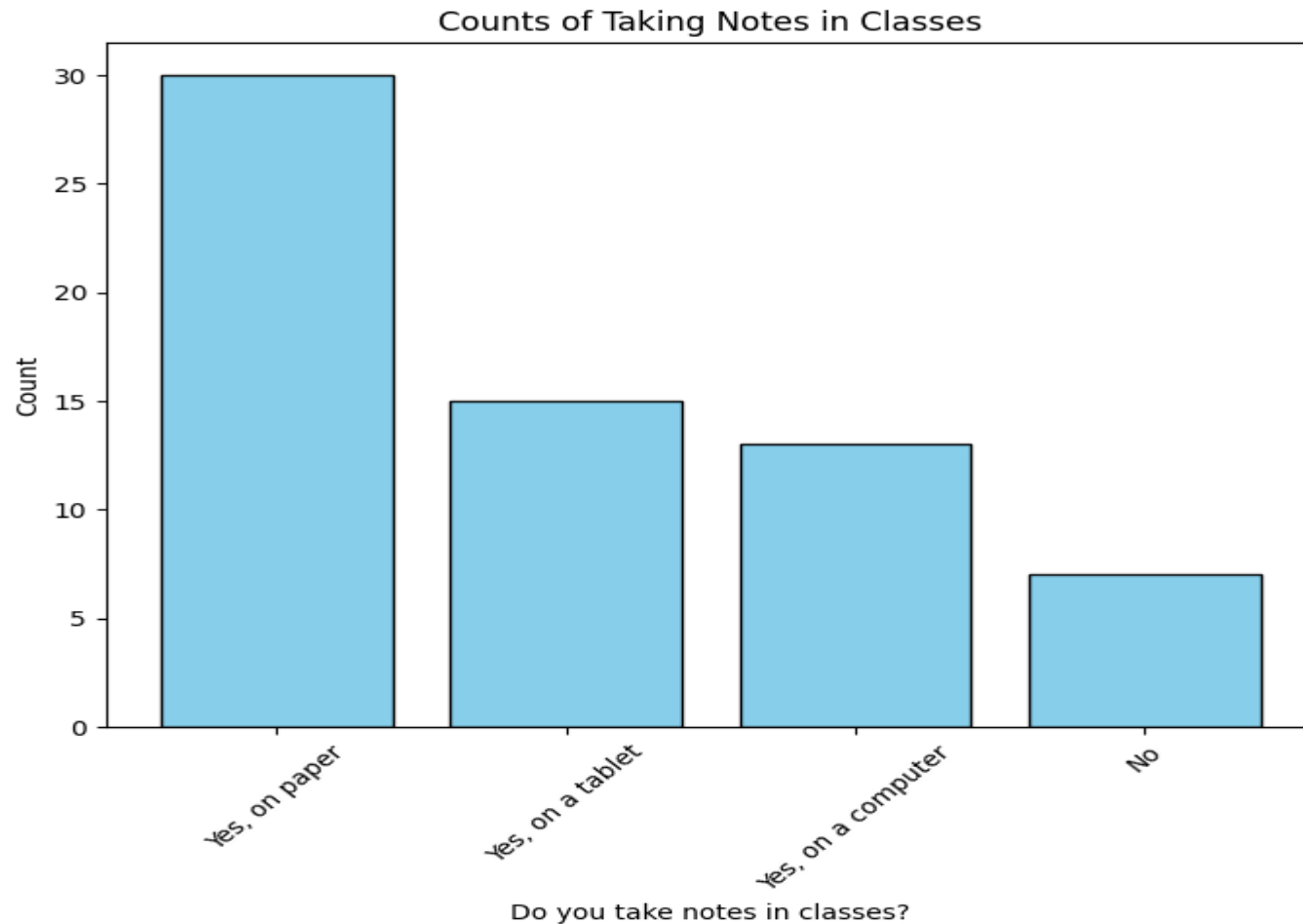
```
count    70.000000
mean      3.648900
std       0.389766
min       2.270000
25%       3.500000
50%       3.782000
75%       3.985250
max       4.000000
```

Age of Starting programming is Normally Distributed

Students prefer to write notes more than typing them

Counts of Taking Notes in Classes

Students that prefer handwritten notes

Students Prefer to type notes

This is a correlation matrix There is a high negative correlation between Screentime and Hours of sleep that means sleep is getting compromised in students having high screentime
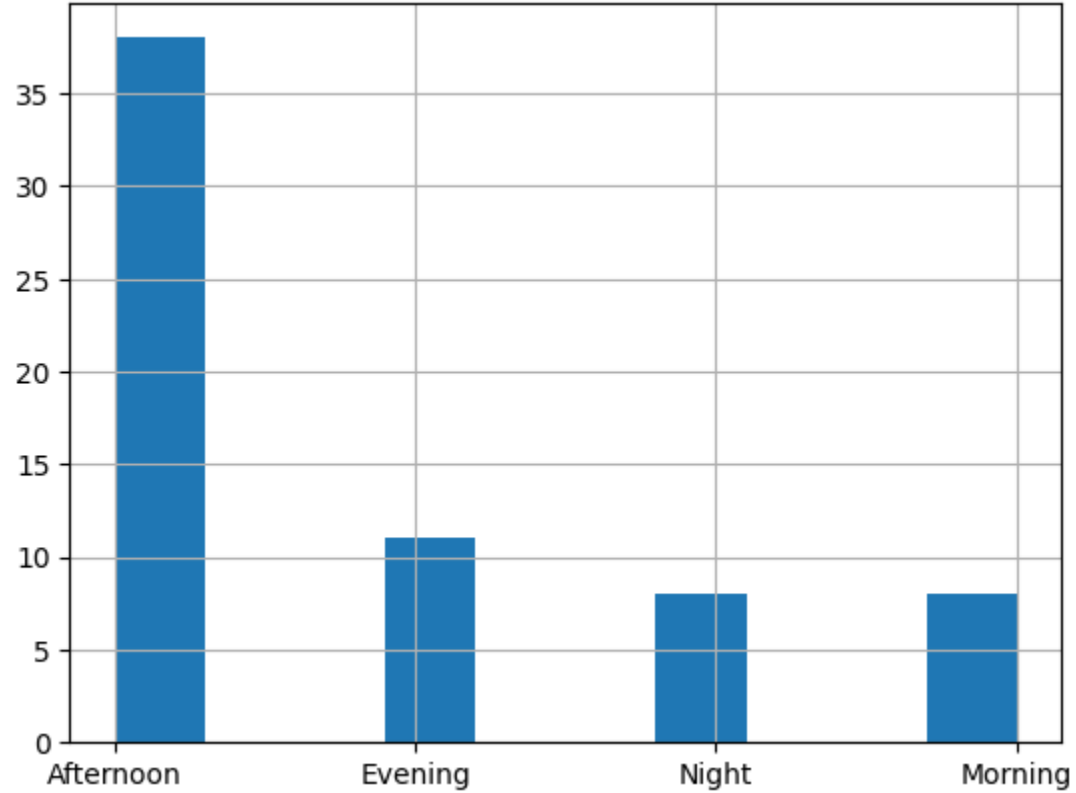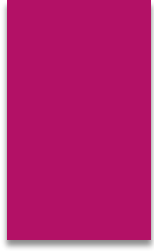
This Correlation matrix tells us that students will score same score they scored in the semester before this as there is high correlation between GPA last semester and GPA last to last semester

Have you at any point attended private school?	No	Yes
Do you study with friends?		
Frequently	12	0
Never	11	4
Sometimes	27	11

Students who have attended Private School at some point of time don't study together frequently

Most Surveys where filled in afternoon so most probably during a lecture