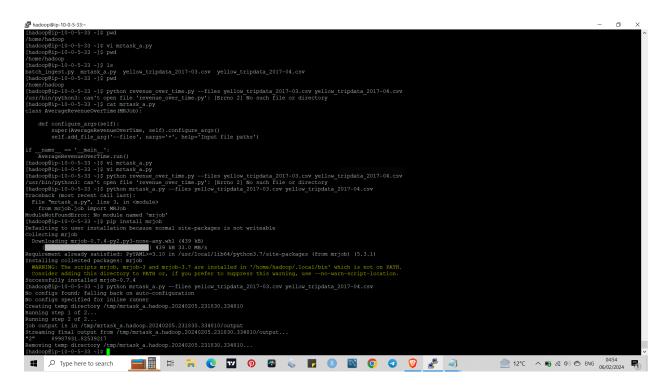
For the Task 4: I've used https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-03.csv https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-04.csv these files.

a. Which vendors have the most trips, and what is the total revenue generated by that vendor?



Answer a:

Vendor 2 i.e. **VeriFone Inc.** has the most trips and the total revenue generated by VeriFone Inc. is **89987931.82539217**

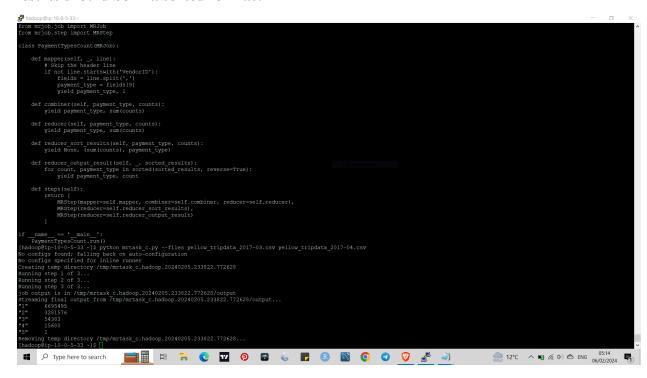
b. Which pickup location generates the most revenue?

```
def configure angelenity:
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super (Averlaphseenacoverries)
```

Answer b:

The pickup location number 132 generates the highest revenue of 13693066.230013764.

c. What are the different payment types used by customers and their count? The final results should be in a sorted format?



Answer c:

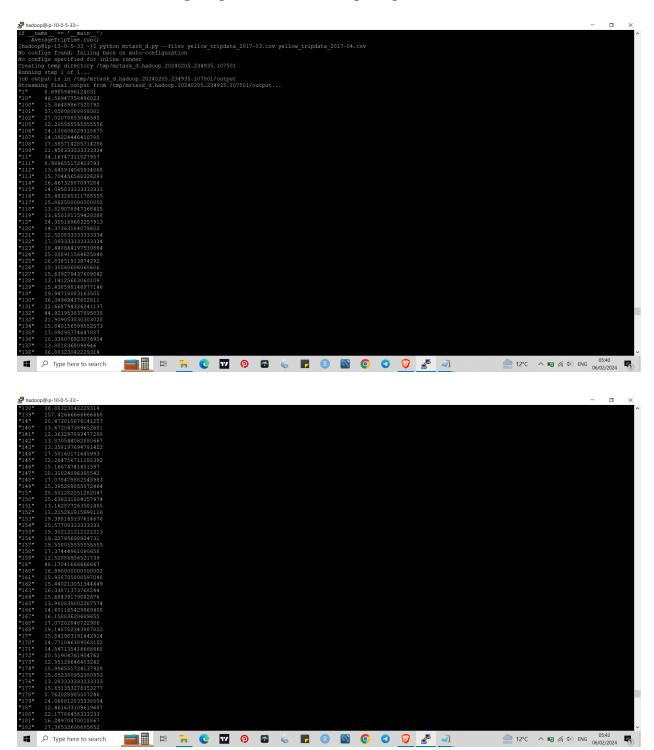
5 i.e. Unknown

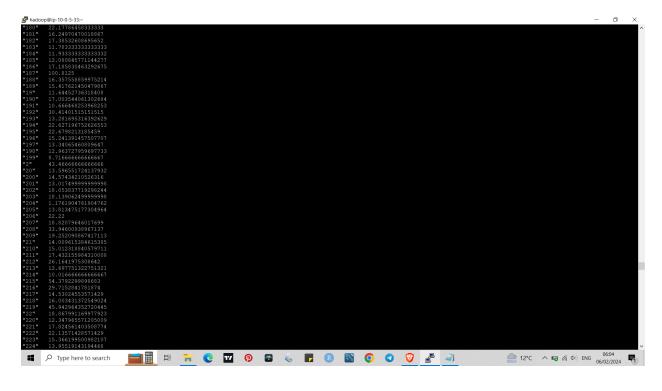
The different payment types used by customers and their count in sorted formats are:-

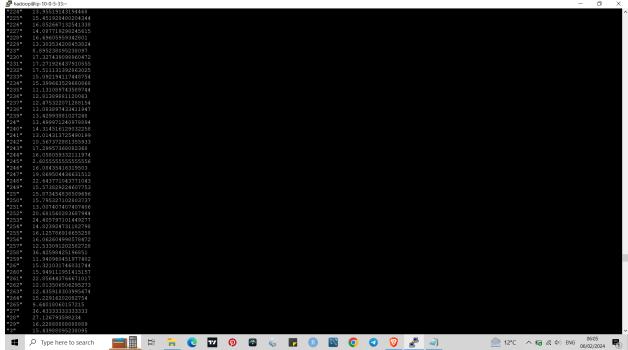
1 i.e. Credit Card	6695495
2 i.e. Cash	3281576
3 i.e. No Charge	54383
4 i.e. Dispute	15680

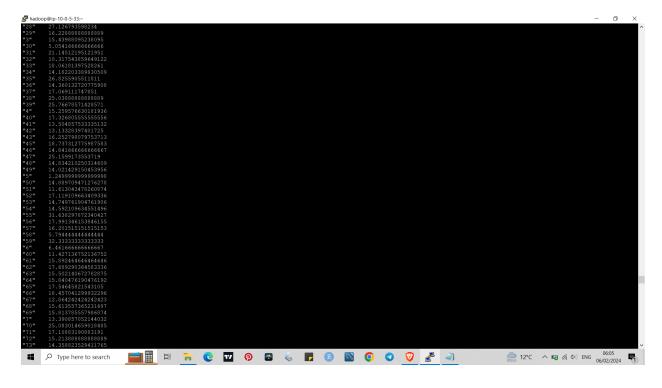
1

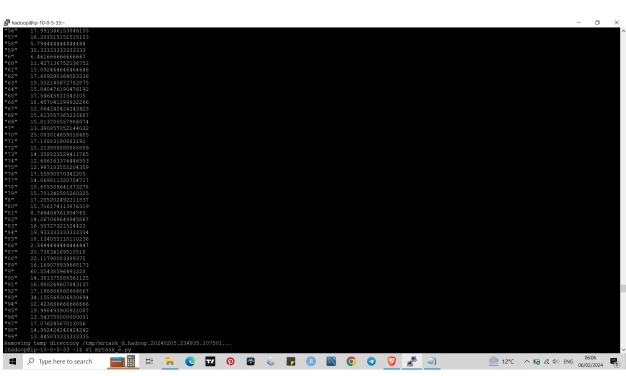
d. What is the average trip time for different pickup locations?



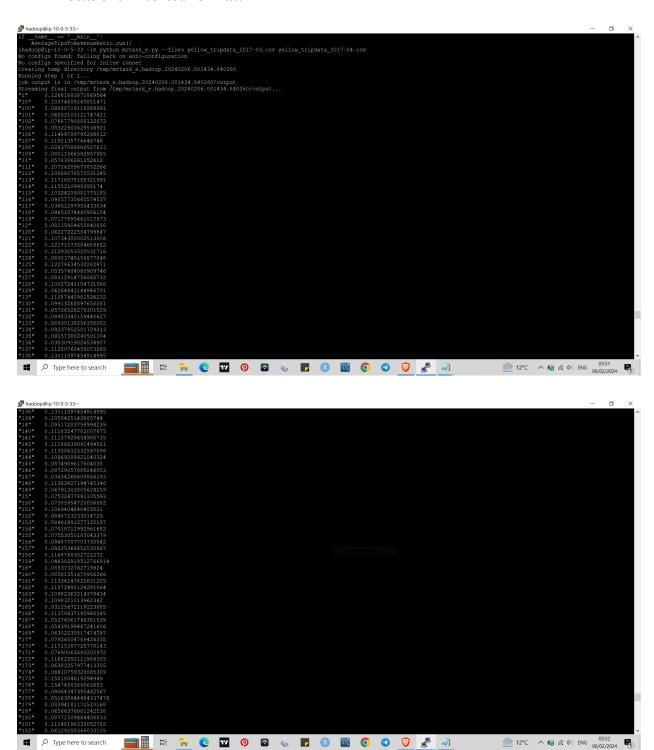


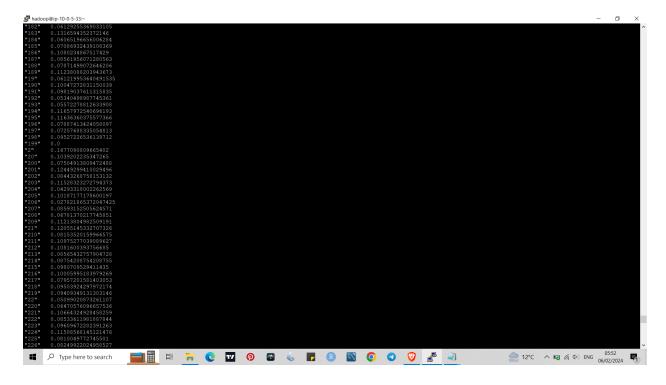


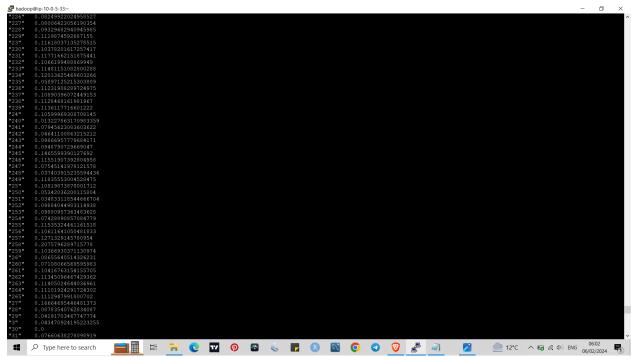


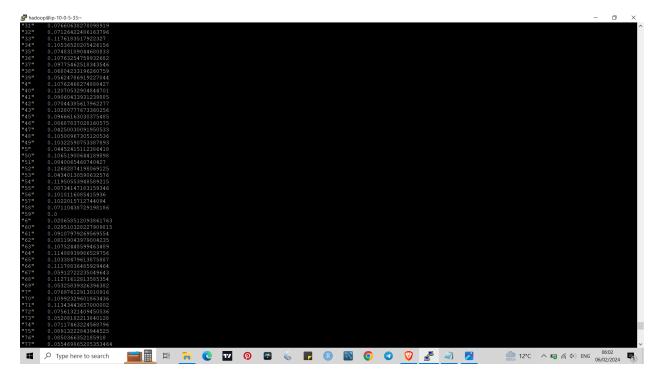


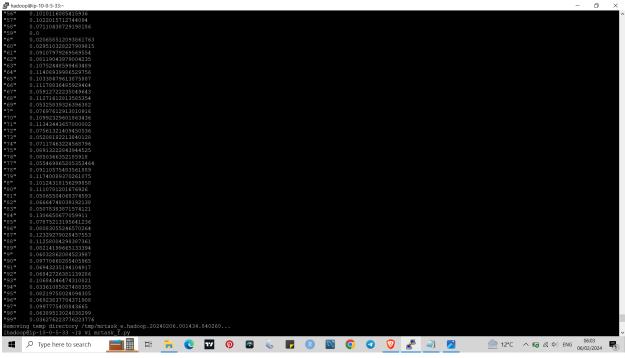
e. Calculate the average tips to revenue ratio of the drivers for different pickup locations in sorted format.



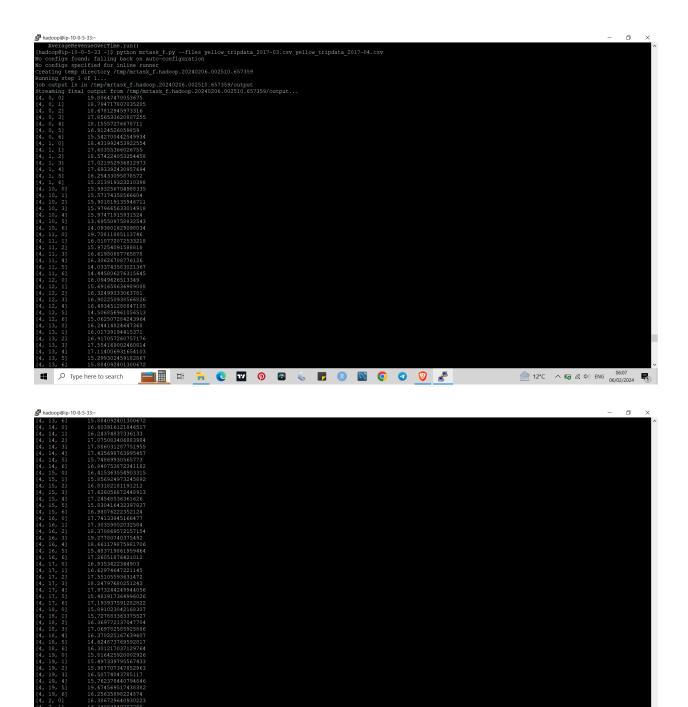








f. How does revenue vary over time? Calculate the average trip revenue per month - analyzing it by hour of the day (day vs night) and the day of the week (weekday vs weekend).



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