This project is about the Data of internet usage [in kb] by graduate student at an indian university.

Answer for the following questions usign Data Analysis.

1. What is the most frequent internet activity time of the day ?

Ans: # Extract the hour from the timestamp

data['Timestamp'] = pd.to_datetime(data['Timestamp'])

data['Hour'] = data['Timestamp'].dt.hour

Calculate the mode of the hours

most_frequent_hour = data['Hour'].mode()[0]

print("The most frequent internet activity time of the day is:", most_frequent_hour, "o'clock")

2. How often the ip changes ?

Ans: # Extract the hour from the timestamp

data['Timestamp'] = pd.to_datetime(data['Timestamp'])

data['Hour'] = data['Timestamp'].dt.hour

Calculate the mode of the hours

most_frequent_hour = data['Hour'].mode()[0]

print("The most frequent internet activity time of the day is:", most_frequent_hour, "o'clock")

3. How often the device changed.

Ans: # Count the unique occurrences of devices

device_changes = data['Device'].nunique()

print("The device changed", device_changes, "times.")

4. What is the average usage per hour , per day and per month ?
Hint: internet_session.csv provided to students.

Ans: # Group by hour and calculate average usage

hourly_average = data.groupby(data['Timestamp'].dt.hour)['Usage'].mean()

print("Average usage per hour:")

print(hourly_average)

```python
# Group by day and calculate average usage

daily_average = data.groupby(data['Timestamp'].dt.date)['Usage'].mean()

print("\nAverage usage per day:")

print(daily_average)

# Group by month and calculate average usage

monthly_average = data.groupby(data['Timestamp'].dt.to_period('M'))['Usage'].mean()

print("\nAverage usage per month:")

print(monthly_average)
```