```
import pandas as pd
import numpy as np
```

```
popular_month = df[' month'].mode()[0]
popular_hour = df[' hour'].mode()[0]
count_month = df[' month'].value_counts()[popular_month]
count_day = df[' day_of_week'].value_counts()[popular_day]
count_hour = df[' hour'].value_counts()[popular_hour]
 count start station = df['Start Station'].value_counts()[popular_start_station]
print('Most popular start station:{}, Count:{}, Filter:{}'.format(popular_start_station, count_start_station, a_input_1))
# TO DO: display most commonly used end station
popular_end_station = df['End Station'].mode()[0]
count_end_station = df['End Station'].value_counts()[popular_end_station]
# TO DO: display most frequent combination of start station and end station trip df['trip'] = """ + df['Start Station'] + """ + ', ' + """ + df['End Station'] + popular_trip = df['trip'].mode()[0] count_trip = df['trip'].value_counts()[popular_trip]
 total_travel_time = df['Trip Duration'].sum()
count_travel_time = df['Trip Duration'].count()
```

```
coutn_female = df['Gender'].value_counts()['Female']
print('Male:{}, Famale:{}, Fileter:{}'.format(coutn_male, coutn_female, a_input_1))
print("\nThis took %s seconds." % (time.time() - start_time2))
year_earliest = df['Birth Year'].min()
year_most_recent = df['Birth Year'].max()
year_most_common = df['Birth Year'].mode()[0]
print('Earliest:{}, Most recent:{}, Most common:{}, Fileter:{}'.format(year_earliest, year_most_recent, year_most_common, a_input_1))
print("\nThis took %s seconds." % (time.time() - start_time3))
```