```
In [3]: import numpy as np
   import pandas as pd
   import matplotlib.pyplot as plt

Detail_Pemesanan = pd.read_csv(r'C:\Users\HP\Downloads\Order_details_iphone.csv', s

In [4]: with pd.option_context('display.max_rows', None, 'display.max_columns', None):
        print(Detail_Pemesanan)
```

	Name	Email
0	PERSON_1	PERSON_1@gmail.com
1	PERSON_2	PERSON_2@tataprojects.com
2	PERSON_3	PERSON_3@gmail.com
3	PERSON_4	PERSON_4@gmail.com
4	PERSON_5	PERSON_5@gmail.com
5	PERSON_6	PERSON_6@gmail.com
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7	PERSON_8	PERSON_8@gmail.com
8	PERSON_9	PERSON_9@outlook.com
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53	PERSON_52	PERSON_52@moirasariya.com
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PERSON\_507@gmail.com

PERSON\_508@gmail.com

559 PERSON 507

560 PERSON 508

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                                         PRODUCT_37, PRODUCT_14
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                                         PRODUCT_27, PRODUCT_63 07/03/2021 21:59
                                                     PRODUCT_75 07/03/2021 22:08
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            PRODUCT 68, PRODUCT 84, PRODUCT 75, PRODUCT 26, PR...
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                                                                 07/03/2021 22:49
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                              PRODUCT_68, PRODUCT_75, PRODUCT_84
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                                                     PRODUCT 74
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                   PRODUCT_26, PRODUCT_7, PRODUCT_25, PRODUCT_72 07/03/2021 23:44
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            PRODUCT 75, PRODUCT 71, PRODUCT 86, PRODUCT 63, PR...
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                                                                 07/03/2021 23:59
       580
                                         PRODUCT 66, PRODUCT 34 07/03/2021 23:59
In [5]: Detail Pemesanan['Time'] = pd.to datetime(Detail Pemesanan['Transaction Date'])
        Detail Pemesanan['Hour'] = (Detail Pemesanan['Time']).dt.hour
In [6]: timemost1 = Detail_Pemesanan['Hour'].value_counts().index.tolist()[:24]
        timemost2 = Detail Pemesanan['Hour'].value counts().values.tolist()[:24]
        tmost = np.column stack((timemost1, timemost2))
```

PRODUCT\_64, PRODUCT\_37, PRODUCT\_12 07/03/2021 21:25

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```
In [8]: print(" Hour Of Day" + "\t" + "Cumulative Number of Purchases \n")
         print('\n'.join('\t\t'.join(map(str, row)) for row in tmost))
         Hour Of Day
                        Cumulative Number of Purchases
        23
                        51
        12
                        51
        22
                        45
        19
                        42
        21
                        41
        15
                        41
        20
                        39
                        37
        11
        13
                        33
        18
                        33
        16
                        29
        14
                        28
                        27
        17
        10
                        24
        0
                        17
        9
                        14
        8
                        10
        7
                        6
        1
                        4
        2
                        3
        5
                        3
        6
                        2
        3
In [9]: timemost = Detail_Pemesanan['Hour'].value_counts()
         timemost1 = []
         for i in range(0,23):
                 timemost1.append(i)
         timemost2 = timemost.sort_index()
         timemost2.tolist()
         timemost2 = pd.DataFrame(timemost2)
In [10]: plt.figure(figsize=(20, 10))
         plt.title('Sales Happening Per Hour (Spread Throughout The Week)',
                         fontdict={'fontname': 'monospace', 'fontsize': 30}, y=1.05)
         plt.ylabel("Number Of Purchases Made", fontsize=18, labelpad=20)
         plt.xlabel("Hour", fontsize=18, labelpad=20)
         plt.plot(timemost1, timemost2, color='blue')
         plt.grid()
         plt.show()
```

## Sales Happening Per Hour (Spread Throughout The Week)

