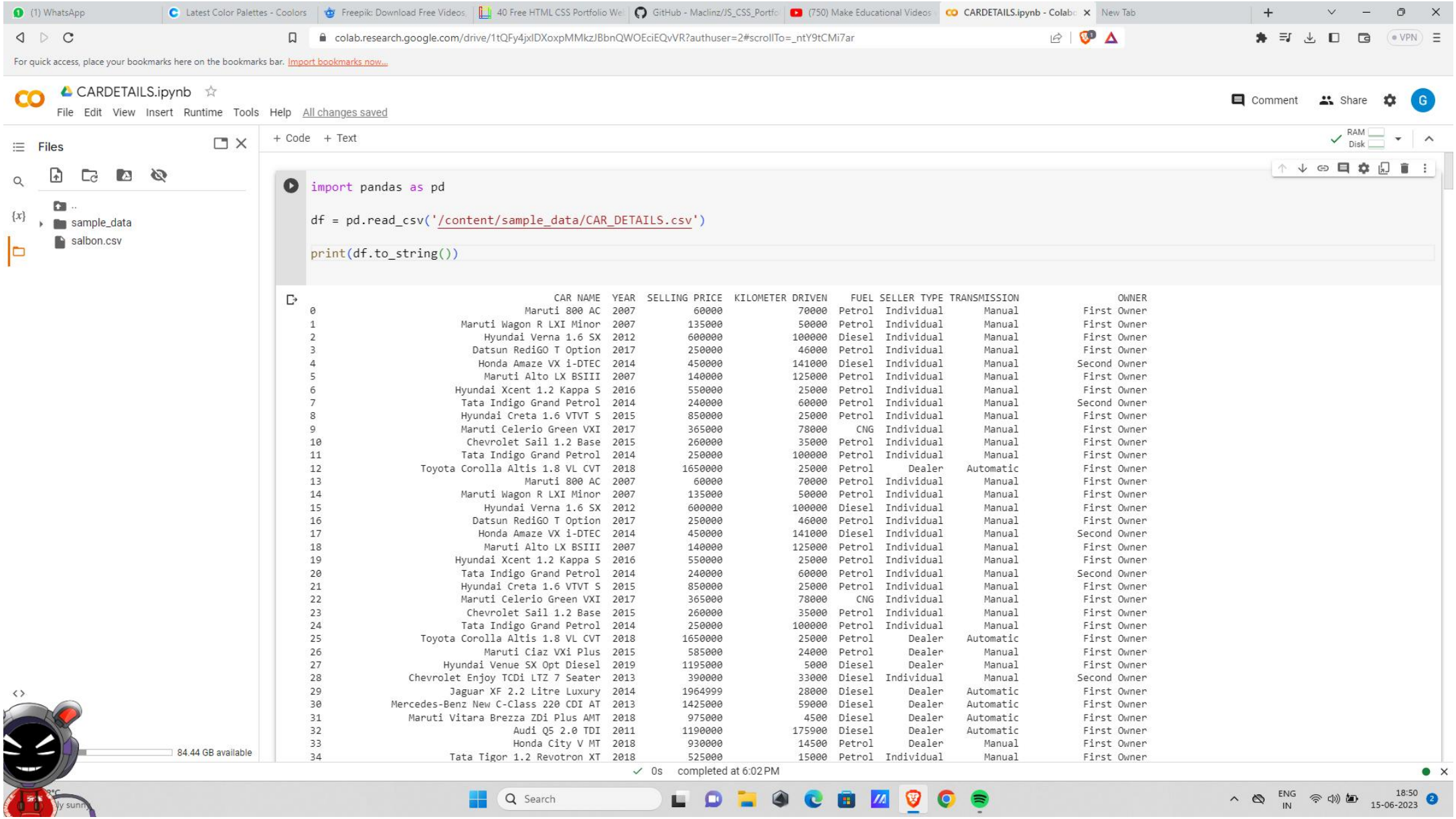
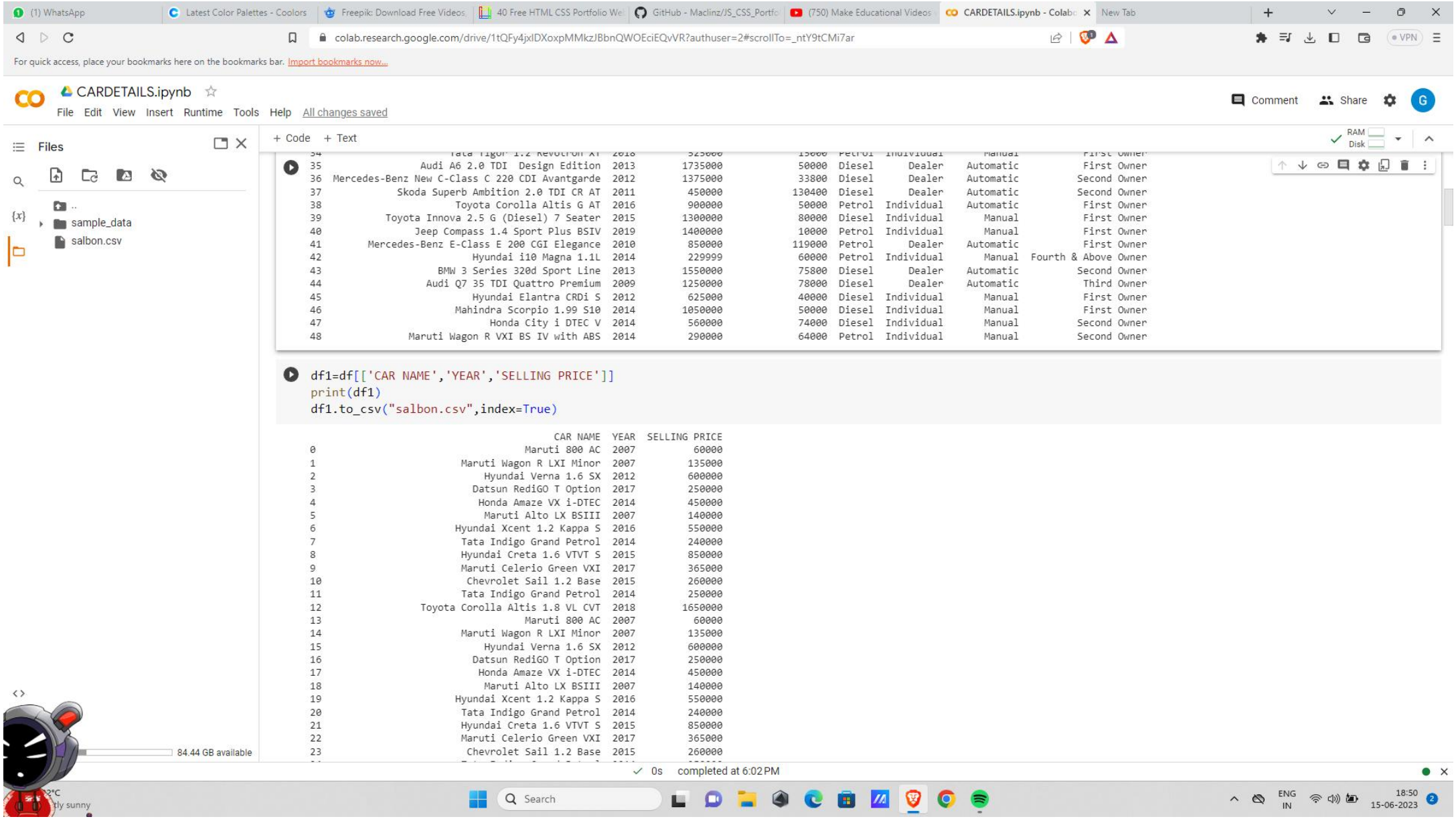
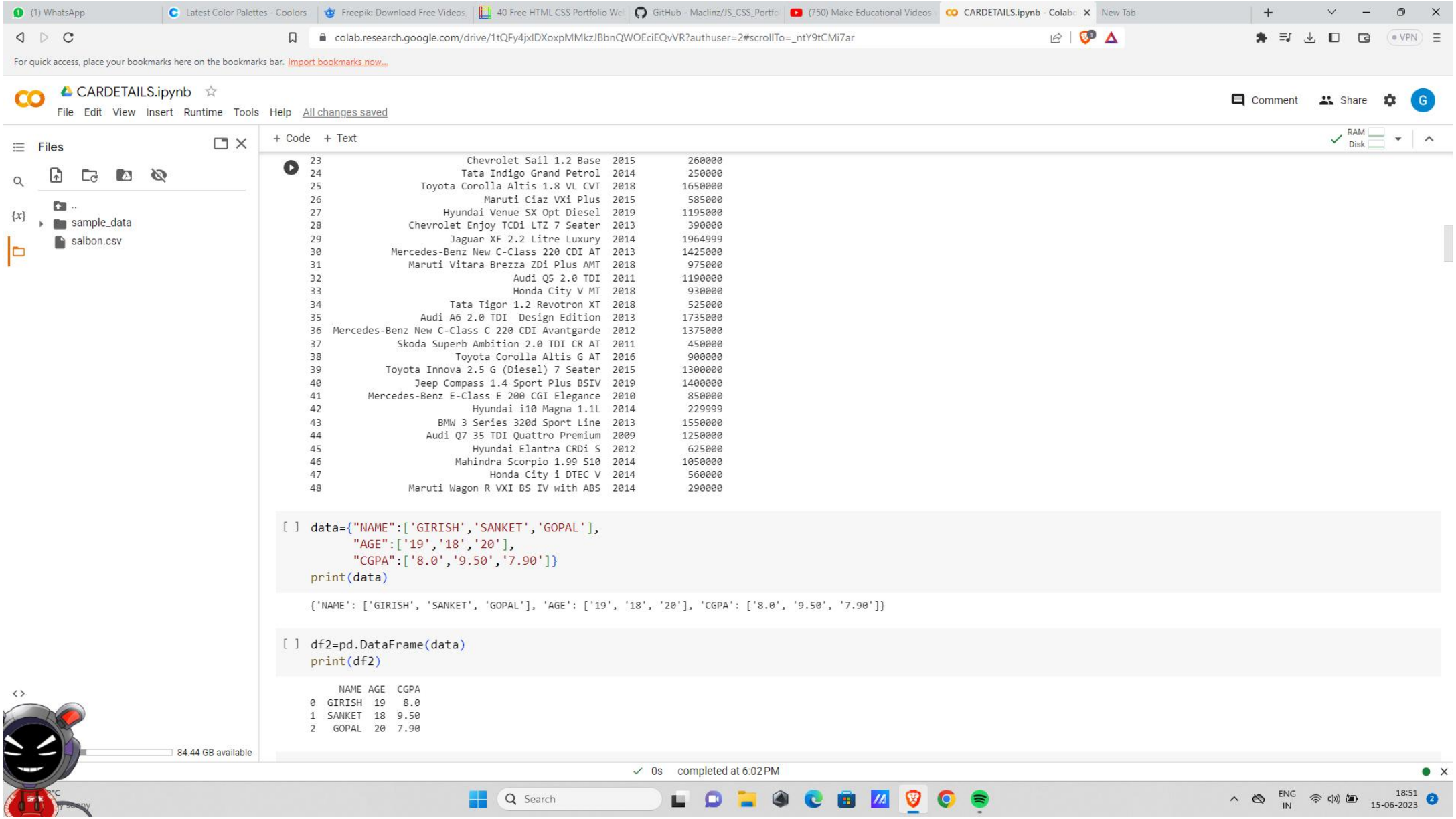


	CAR NAME	YEAR	SELLING PRICE	KILOMETER DRIVEN	FUEL	SELLER TYPE	TRANSMISSION	OWNER
0	Maruti 800 AC	2007	60000	70000	Petrol	Individual	Manual	First Owner
1	Maruti Wagon R LXI Minor	2007	135000	50000	Petrol	Individual	Manual	First Owner
2	Hyundai Verna 1.6 SX	2012	600000	100000	Diesel	Individual	Manual	First Owner
3	Datsun RediGO T Option	2017	250000	46000	Petrol	Individual	Manual	First Owner
4	Honda Amaze VX i-DTEC	2014	450000	141000	Diesel	Individual	Manual	Second Owner
5	Maruti Alto LX BSIII	2007	140000	125000	Petrol	Individual	Manual	First Owner
6	Hyundai Xcent 1.2 Kappa S	2016	550000	25000	Petrol	Individual	Manual	First Owner
7	Tata Indigo Grand Petrol	2014	240000	60000	Petrol	Individual	Manual	Second Owner
8	Hyundai Creta 1.6 VTVT S	2015	850000	25000	Petrol	Individual	Manual	First Owner
9	Maruti Celerio Green VXI	2017	365000	78000	CNG	Individual	Manual	First Owner
10	Chevrolet Sail 1.2 Base	2015	260000	35000	Petrol	Individual	Manual	First Owner
11	Tata Indigo Grand Petrol	2014	250000	100000	Petrol	Individual	Manual	First Owner
12	Toyota Corolla Altis 1.8 VL CVT	2018	1650000	25000	Petrol	Dealer	Automatic	First Owner
13	Maruti 800 AC	2007	60000	70000	Petrol	Individual	Manual	First Owner
14	Maruti Wagon R LXI Minor	2007	135000	50000	Petrol	Individual	Manual	First Owner
15	Hyundai Verna 1.6 SX	2012	600000	100000	Diesel	Individual	Manual	First Owner
16	Datsun RediGO T Option	2017	250000	46000	Petrol	Individual	Manual	First Owner
17	Honda Amaze VX i-DTEC	2014	450000	141000	Diesel	Individual	Manual	Second Owner
18	Maruti Alto LX BSIII	2007	140000	125000	Petrol	Individual	Manual	First Owner
19	Hyundai Xcent 1.2 Kappa S	2016	550000	25000	Petrol	Individual	Manual	First Owner
20	Tata Indigo Grand Petrol	2014	240000	60000	Petrol	Individual	Manual	Second Owner
21	Hyundai Creta 1.6 VTVT S	2015	850000	25000	Petrol	Individual	Manual	First Owner
22	Maruti Celerio Green VXI	2017	365000	78000	CNG	Individual	Manual	First Owner
23	Chevrolet Sail 1.2 Base	2015	260000	35000	Petrol	Individual	Manual	First Owner
24	Tata Indigo Grand Petrol	2014	250000	100000	Petrol	Individual	Manual	First Owner
25	Toyota Corolla Altis 1.8 VL CVT	2018	1650000	25000	Petrol	Dealer	Automatic	First Owner
26	Maruti Ciaz VXi Plus	2015	585000	24000	Petrol	Dealer	Manual	First Owner
27	Hyundai Venue SX Opt Diesel	2019	1195000	5000	Diesel	Dealer	Manual	First Owner
28	Chevrolet Enjoy TCDi LTZ 7 Seater	2013	390000	33000	Diesel	Individual	Manual	Second Owner
29	Jaguar XF 2.2 Litre Luxury	2014	1964999	28000	Diesel	Dealer	Automatic	First Owner
30	Mercedes-Benz New C-Class 220 CDI AT	2013	1425000	59000	Diesel	Dealer	Automatic	First Owner
31	Maruti Vitara Brezza ZDi Plus AMT	2018	975000	4500	Diesel	Dealer	Automatic	First Owner
32	Audi Q5 2.0 TDI	2011	1190000	175900	Diesel	Dealer	Automatic	First Owner
33	Honda City V MT	2018	930000	14500	Petrol	Dealer	Manual	First Owner
34	Tata Tigor 1.2 Revotron XT	2018	525000	15000	Petrol	Individual	Manual	First Owner



	CAR NAME	YEAR	SELLING PRICE
0	Maruti 800 AC	2007	60000
1	Maruti Wagon R LXI Minor	2007	135000
2	Hyundai Verna 1.6 SX	2012	600000
3	Datsun RediGO T Option	2017	250000
4	Honda Amaze VX i-DTEC	2014	450000
5	Maruti Alto LX BSIII	2007	140000
6	Hyundai Xcent 1.2 Kappa S	2016	550000
7	Tata Indigo Grand Petrol	2014	240000
8	Hyundai Creta 1.6 VTVT S	2015	850000
9	Maruti Celerio Green VXI	2017	365000
10	Chevrolet Sail 1.2 Base	2015	260000
11	Tata Indigo Grand Petrol	2014	250000
12	Toyota Corolla Altis 1.8 VL CVT	2018	1650000
13	Maruti 800 AC	2007	60000
14	Maruti Wagon R LXI Minor	2007	135000
15	Hyundai Verna 1.6 SX	2012	600000
16	Datsun RediGO T Option	2017	250000
17	Honda Amaze VX i-DTEC	2014	450000
18	Maruti Alto LX BSIII	2007	140000
19	Hyundai Xcent 1.2 Kappa S	2016	550000
20	Tata Indigo Grand Petrol	2014	240000
21	Hyundai Creta 1.6 VTVT S	2015	850000
22	Maruti Celerio Green VXI	2017	365000
23	Chevrolet Sail 1.2 Base	2015	260000

35	Audi A6 2.0 TDI Design Edition	2013	1735000	50000	Diesel	Dealer	Automatic	First Owner
36	Mercedes-Benz New C-Class C 220 CDI Avantgarde	2012	1375000	33800	Diesel	Dealer	Automatic	Second Owner
37	Skoda Superb Ambition 2.0 TDI CR AT	2011	450000	130400	Diesel	Dealer	Automatic	Second Owner
38	Toyota Corolla Altis G AT	2016	900000	50000	Petrol	Individual	Automatic	First Owner
39	Toyota Innova 2.5 G (Diesel) 7 Seater	2015	1300000	80000	Diesel	Individual	Manual	First Owner
40	Jeep Compass 1.4 Sport Plus BSIV	2019	1400000	10000	Petrol	Individual	Manual	First Owner
41	Mercedes-Benz E-Class E 200 CGI Elegance	2010	850000	119000	Petrol	Dealer	Automatic	First Owner
42	Hyundai i10 Magna 1.1L	2014	229999	60000	Petrol	Individual	Manual	Fourth & Above Owner
43	BMW 3 Series 320d Sport Line	2013	1550000	75800	Diesel	Dealer	Automatic	Second Owner
44	Audi Q7 35 TDI Quattro Premium	2009	1250000	78000	Diesel	Dealer	Automatic	Third Owner
45	Hyundai Elantra CRDi S	2012	625000	40000	Diesel	Individual	Manual	First Owner
46	Mahindra Scorpio 1.99 S10	2014	1050000	50000	Diesel	Individual	Manual	First Owner
47	Honda City i DTEC V	2014	560000	74000	Diesel	Individual	Manual	Second Owner
48	Maruti Wagon R VXI BS IV with ABS	2014	290000	64000	Petrol	Individual	Manual	Second Owner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23 Chevrolet Sail 1.2 Base 2015 260000
24 Tata Indigo Grand Petrol 2014 250000
25 Toyota Corolla Altis 1.8 VL CVT 2018 1650000
26 Maruti Ciaz VXi Plus 2015 585000
27 Hyundai Venue SX Opt Diesel 2019 1195000
28 Chevrolet Enjoy TCDi LTZ 7 Seater 2013 390000
29 Jaguar XF 2.2 Litre Luxury 2014 1964999
30 Mercedes-Benz New C-Class 220 CDI AT 2013 1425000
31 Maruti Vitara Brezza ZDi Plus AMT 2018 975000
32 Audi Q5 2.0 TDI 2011 1190000
33 Honda City V MT 2018 930000
34 Tata Tigor 1.2 Revotron XT 2018 525000
35 Audi A6 2.0 TDI Design Edition 2013 1735000
36 Mercedes-Benz New C-Class C 220 CDI Avantgarde 2012 1375000
37 Skoda Superb Ambition 2.0 TDI CR AT 2011 450000
38 Toyota Corolla Altis G AT 2016 900000
39 Toyota Innova 2.5 G (Diesel) 7 Seater 2015 1300000
40 Jeep Compass 1.4 Sport Plus BSIV 2019 1400000
41 Mercedes-Benz E-Class E 200 CGI Elegance 2010 850000
42 Hyundai i10 Magna 1.1L 2014 229999
43 BMW 3 Series 320d Sport Line 2013 1550000
44 Audi Q7 35 TDI Quattro Premium 2009 1250000
45 Hyundai Elantra CRDi S 2012 625000
46 Mahindra Scorpio 1.99 S10 2014 1050000
47 Honda City i DTEC V 2014 560000
48 Maruti Wagon R VXI BS IV with ABS 2014 290000
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"AGE":['19','18','20'],
"CGPA":['8.0','9.50','7.90']}
print(data)
{'NAME': ['GIRISH', 'SANKET', 'GOPAL'], 'AGE': ['19', '18', '20'], 'CGPA': ['8.0', '9.50', '7.90']}
[ ] df2=pd.DataFrame(data)
print(df2)
NAME AGE CGPA
0 GIRISH 19 8.0
1 SANKET 18 9.50
2 GOPAL 20 7.90
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```
nm=pd.Series(['GIRISH','SANKET','GOPAL'])
age=pd.Series(['19','18','20'])
cgpa=pd.Series(['8.0','9.50','7.90'])

df3=nm.to_frame("Name")
print(df3)

df4=pd.concat([nm,age,cgpa],axis=1)
print(df4)
```

```
     Name
0  GIRISH
1  SANKET
2   GOPAL
       0   1     2
0  GIRISH  19   8.0
1  SANKET  18  9.50
2   GOPAL  20  7.90
```

```
[ ] print(df)
    print(df.describe)
```

```
                                  CAR NAME  YEAR  SELLING PRICE  \
0                            Maruti 800 AC  2007          60000
1                    Maruti Wagon R LXI Minor  2007         135000
2                        Hyundai Verna 1.6 SX  2012         600000
3                    Datsun RediGO T Option  2017         250000
4                     Honda Amaze VX i-DTEC  2014         450000
5                     Maruti Alto LX BSIII  2007         140000
6                   Hyundai Xcent 1.2 Kappa S  2016         550000
7                    Tata Indigo Grand Petrol  2014         240000
8                    Hyundai Creta 1.6 VTVT S  2015         850000
9                    Maruti Celerio Green VXI  2017         365000
10                    Chevrolet Sail 1.2 Base  2015         260000
11                   Tata Indigo Grand Petrol  2014         250000
12               Toyota Corolla Altis 1.8 VL CVT  2018        1650000
13                           Maruti 800 AC  2007          60000
14                   Maruti Wagon R LXI Minor  2007         135000
15                       Hyundai Verna 1.6 SX  2012         600000
16                   Datsun RediGO T Option  2017         250000
17                    Honda Amaze VX i-DTEC  2014         450000
```

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16	Datsun RediGO T Option	2017	250000			
17	Honda Amaze VX i-DTEC	2014	450000			
18	Maruti Alto LX BSIII	2007	140000			
19	Hyundai Xcent 1.2 Kappa S	2016	550000			
20	Tata Indigo Grand Petrol	2014	240000			
21	Hyundai Creta 1.6 VTVT S	2015	850000			
22	Maruti Celerio Green VXI	2017	365000			
23	Chevrolet Sail 1.2 Base	2015	260000			
24	Tata Indigo Grand Petrol	2014	250000			
25	Toyota Corolla Altis 1.8 VL CVT	2018	1650000			
26	Maruti Ciaz VXi Plus	2015	585000			
27	Hyundai Venue SX Opt Diesel	2019	1195000			
28	Chevrolet Enjoy TCDi LTZ 7 Seater	2013	390000			
29	Jaguar XF 2.2 Litre Luxury	2014	1964999			
30	Mercedes-Benz New C-Class 220 CDI AT	2013	1425000			
31	Maruti Vitara Brezza ZDi Plus AMT	2018	975000			
32	Audi Q5 2.0 TDI	2011	1190000			
33	Honda City V MT	2018	930000			
34	Tata Tigor 1.2 Revotron XT	2018	525000			
35	Audi A6 2.0 TDI Design Edition	2013	1735000			
36	Mercedes-Benz New C-Class C 220 CDI Avantgarde	2012	1375000			
37	Skoda Superb Ambition 2.0 TDI CR AT	2011	450000			
38	Toyota Corolla Altis G AT	2016	900000			
39	Toyota Innova 2.5 G (Diesel) 7 Seater	2015	1300000			
40	Jeep Compass 1.4 Sport Plus BSIV	2019	1400000			
41	Mercedes-Benz E-Class E 200 CGI Elegance	2010	850000			
42	Hyundai i10 Magna 1.1L	2014	229999			
43	BMW 3 Series 320d Sport Line	2013	1550000			
44	Audi Q7 35 TDI Quattro Premium	2009	1250000			
45	Hyundai Elantra CRDi S	2012	625000			
46	Mahindra Scorpio 1.99 S10	2014	1050000			
47	Honda City i DTEC V	2014	560000			
48	Maruti Wagon R VXI BS IV with ABS	2014	290000			

	KILOMETER DRIVEN	FUEL	SELLER TYPE	TRANSMISSION	OWNER
0	70000	Petrol	Individual	Manual	First Owner
1	50000	Petrol	Individual	Manual	First Owner
2	100000	Diesel	Individual	Manual	First Owner
3	46000	Petrol	Individual	Manual	First Owner
4	141000	Diesel	Individual	Manual	Second Owner
5	125000	Petrol	Individual	Manual	First Owner
6	25000	Petrol	Individual	Manual	First Owner
7	60000	Petrol	Individual	Manual	Second Owner
8	25000	Petrol	Individual	Manual	First Owner
9	78000	CNG	Individual	Manual	First Owner
10	35000	Petrol	Individual	Manual	First Owner
11	100000	Petrol	Individual	Manual	First Owner

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```
8      25000  Petrol  Individual     Manual         First Owner
9      78000     CNG  Individual     Manual         First Owner
10     35000  Petrol  Individual     Manual         First Owner
11    100000  Petrol  Individual     Manual         First Owner
12     25000  Petrol      Dealer  Automatic         First Owner
13     70000  Petrol  Individual     Manual         First Owner
14     50000  Petrol  Individual     Manual         First Owner
15    100000  Diesel  Individual     Manual         First Owner
16     46000  Petrol  Individual     Manual         First Owner
17    141000  Diesel  Individual     Manual        Second Owner
18    125000  Petrol  Individual     Manual         First Owner
19     25000  Petrol  Individual     Manual         First Owner
20     60000  Petrol  Individual     Manual        Second Owner
21     25000  Petrol  Individual     Manual         First Owner
22     78000     CNG  Individual     Manual         First Owner
23     35000  Petrol  Individual     Manual         First Owner
24    100000  Petrol  Individual     Manual         First Owner
25     25000  Petrol      Dealer  Automatic         First Owner
26     24000  Petrol      Dealer     Manual         First Owner
27      5000  Diesel      Dealer     Manual         First Owner
28     33000  Diesel  Individual     Manual        Second Owner
29     28000  Diesel      Dealer  Automatic         First Owner
30     59000  Diesel      Dealer  Automatic         First Owner
31      4500  Diesel      Dealer  Automatic         First Owner
32    175900  Diesel      Dealer  Automatic         First Owner
33     14500  Petrol      Dealer     Manual         First Owner
34     15000  Petrol  Individual     Manual         First Owner
35     50000  Diesel      Dealer  Automatic         First Owner
36     33800  Diesel      Dealer  Automatic        Second Owner
37    130400  Diesel      Dealer  Automatic        Second Owner
38     50000  Petrol  Individual  Automatic         First Owner
39     80000  Diesel  Individual     Manual         First Owner
40     10000  Petrol  Individual     Manual         First Owner
41    119000  Petrol      Dealer  Automatic         First Owner
42     60000  Petrol  Individual     Manual  Fourth & Above Owner
43     75800  Diesel      Dealer  Automatic        Second Owner
44     78000  Diesel      Dealer  Automatic         Third Owner
45     40000  Diesel  Individual     Manual         First Owner
46     50000  Diesel  Individual     Manual         First Owner
47     74000  Diesel  Individual     Manual        Second Owner
48     64000  Petrol  Individual     Manual        Second Owner
<bound method NDFrame.describe of                  CAR NAME  YEAR  SELLING PRICE  \
0                  Maruti 800 AC  2007          60000
1           Maruti Wagon R LXI Minor  2007         135000
2               Hyundai Verna 1.6 SX  2012         600000
3             Datsun RediGO T Option  2017         250000
4              Honda Amaze VX i-DTEC  2014         450000
```

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```
[ ]  46           50000  Diesel  Individual       Manual         First Owner
     47           74000  Diesel  Individual       Manual        Second Owner
     48           64000  Petrol  Individual       Manual        Second Owner
     <bound method NDFrame.describe of                                  CAR NAME  YEAR  SELLING PRICE  \
     0                                Maruti 800 AC  2007          60000
     1                        Maruti Wagon R LXI Minor  2007         135000
     2                            Hyundai Verna 1.6 SX  2012         600000
     3                          Datsun RediGO T Option  2017         250000
     4                           Honda Amaze VX i-DTEC  2014         450000
     5                            Maruti Alto LX BSIII  2007         140000
     6                          Hyundai Xcent 1.2 Kappa S  2016         550000
     7                           Tata Indigo Grand Petrol  2014         240000
     8                           Hyundai Creta 1.6 VTVT S  2015         850000
     9                           Maruti Celerio Green VXI  2017         365000
     10                           Chevrolet Sail 1.2 Base  2015         260000
     11                          Tata Indigo Grand Petrol  2014         250000
     12                Toyota Corolla Altis 1.8 VL CVT  2018        1650000
     13                               Maruti 800 AC  2007          60000
     14                       Maruti Wagon R LXI Minor  2007         135000
     15                           Hyundai Verna 1.6 SX  2012         600000
     16                         Datsun RediGO T Option  2017         250000
     17                          Honda Amaze VX i-DTEC  2014         450000
     18                           Maruti Alto LX BSIII  2007         140000
     19                         Hyundai Xcent 1.2 Kappa S  2016         550000
     20                          Tata Indigo Grand Petrol  2014         240000
     21                          Hyundai Creta 1.6 VTVT S  2015         850000
     22                          Maruti Celerio Green VXI  2017         365000
     23                           Chevrolet Sail 1.2 Base  2015         260000
     24                          Tata Indigo Grand Petrol  2014         250000
     25                Toyota Corolla Altis 1.8 VL CVT  2018        1650000
     26                           Maruti Ciaz VXi Plus  2015         585000
     27                      Hyundai Venue SX Opt Diesel  2019        1195000
     28                Chevrolet Enjoy TCDi LTZ 7 Seater  2013         390000
     29                        Jaguar XF 2.2 Litre Luxury  2014        1964999
     30             Mercedes-Benz New C-Class 220 CDI AT  2013        1425000
     31                Maruti Vitara Brezza ZDi Plus AMT  2018         975000
     32                                Audi Q5 2.0 TDI  2011        1190000
     33                                Honda City V MT  2018         930000
     34                        Tata Tigor 1.2 Revotron XT  2018         525000
     35                  Audi A6 2.0 TDI  Design Edition  2013        1735000
     36  Mercedes-Benz New C-Class C 220 CDI Avantgarde  2012        1375000
     37              Skoda Superb Ambition 2.0 TDI CR AT  2011         450000
     38                        Toyota Corolla Altis G AT  2016         900000
     39             Toyota Innova 2.5 G (Diesel) 7 Seater  2015        1300000
     40                 Jeep Compass 1.4 Sport Plus BSIV  2019        1400000
     41          Mercedes-Benz E-Class E 200 CGI Elegance  2010         850000
     42                             Hyundai i10 Magna 1.1L  2014         229999
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                                 Jeep Compass 1.4 Sport Plus BSIV  2019        1400000
                         Mercedes-Benz E-Class E 200 CGI Elegance  2010         850000
                                       Hyundai i10 Magna 1.1L  2014         229999
                                   BMW 3 Series 320d Sport Line  2013        1550000
                                  Audi Q7 35 TDI Quattro Premium  2009        1250000
                                       Hyundai Elantra CRDi S  2012         625000
                                    Mahindra Scorpio 1.99 S10  2014        1050000
                                         Honda City i DTEC V  2014         560000
                               Maruti Wagon R VXI BS IV with ABS  2014         290000

    KILOMETER DRIVEN    FUEL SELLER TYPE TRANSMISSION               OWNER
0              70000  Petrol  Individual       Manual         First Owner
1              50000  Petrol  Individual       Manual         First Owner
2             100000  Diesel  Individual       Manual         First Owner
3              46000  Petrol  Individual       Manual         First Owner
4             141000  Diesel  Individual       Manual        Second Owner
5             125000  Petrol  Individual       Manual         First Owner
6              25000  Petrol  Individual       Manual         First Owner
7              60000  Petrol  Individual       Manual        Second Owner
8              25000  Petrol  Individual       Manual         First Owner
9              78000     CNG  Individual       Manual         First Owner
10             35000  Petrol  Individual       Manual         First Owner
11            100000  Petrol  Individual       Manual         First Owner
12             25000  Petrol      Dealer    Automatic         First Owner
13             70000  Petrol  Individual       Manual         First Owner
14             50000  Petrol  Individual       Manual         First Owner
15            100000  Diesel  Individual       Manual         First Owner
16             46000  Petrol  Individual       Manual         First Owner
17            141000  Diesel  Individual       Manual        Second Owner
18            125000  Petrol  Individual       Manual         First Owner
19             25000  Petrol  Individual       Manual         First Owner
20             60000  Petrol  Individual       Manual        Second Owner
21             25000  Petrol  Individual       Manual         First Owner
22             78000     CNG  Individual       Manual         First Owner
23             35000  Petrol  Individual       Manual         First Owner
24            100000  Petrol  Individual       Manual         First Owner
25             25000  Petrol      Dealer    Automatic         First Owner
26             24000  Petrol      Dealer       Manual         First Owner
27              5000  Diesel      Dealer       Manual         First Owner
28             33000  Diesel  Individual       Manual        Second Owner
29             28000  Diesel      Dealer    Automatic         First Owner
30             59000  Diesel      Dealer    Automatic         First Owner
31              4500  Diesel      Dealer    Automatic         First Owner
32            175900  Diesel      Dealer    Automatic         First Owner
33             14500  Petrol      Dealer       Manual         First Owner
34             15000  Petrol  Individual       Manual         First Owner
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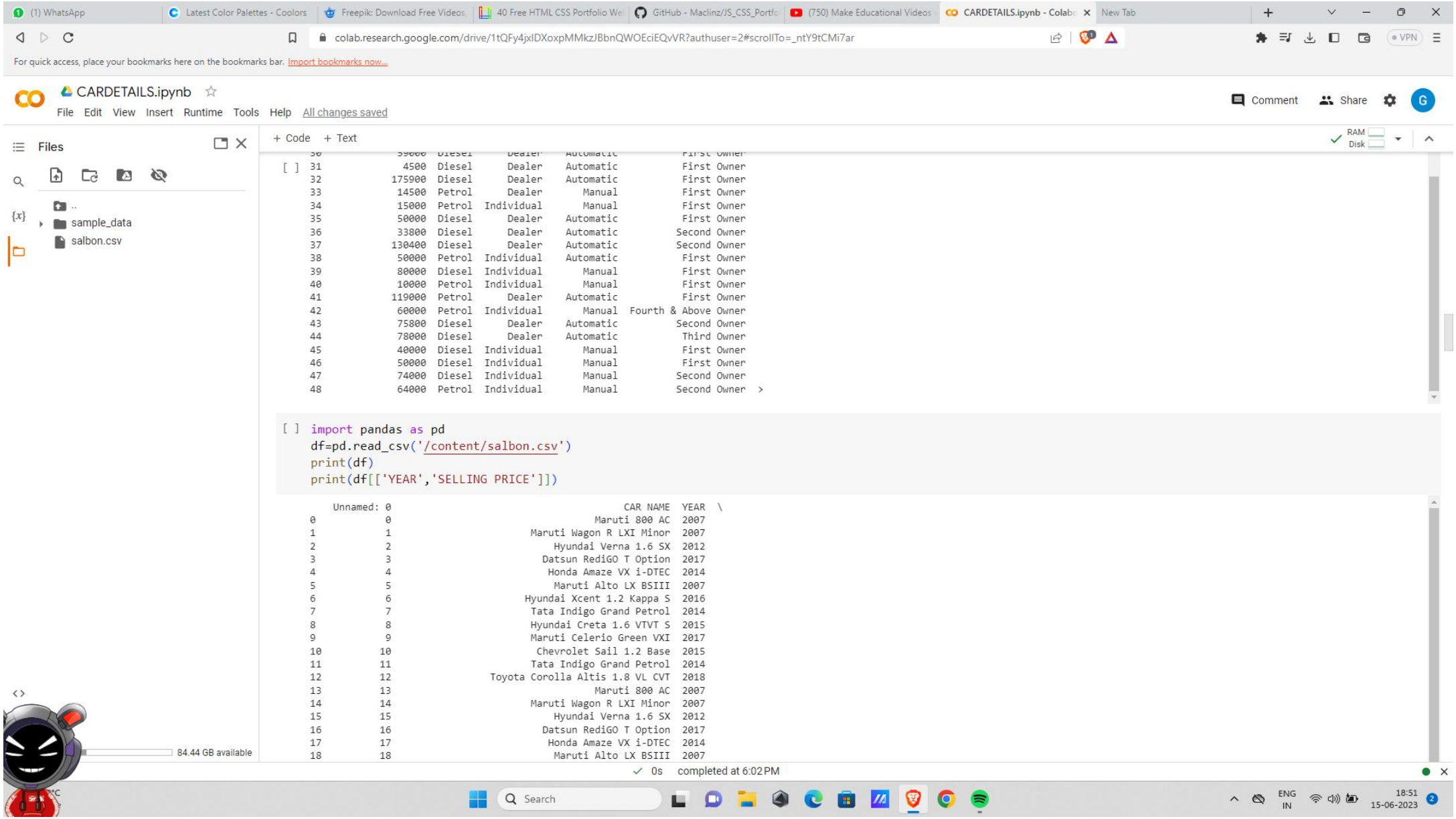
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RAM
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[ ]
31 4500 Diesel Dealer Automatic First Owner
32 175900 Diesel Dealer Automatic First Owner
33 14500 Petrol Dealer Manual First Owner
34 15000 Petrol Individual Manual First Owner
35 50000 Diesel Dealer Automatic First Owner
36 33800 Diesel Dealer Automatic Second Owner
37 130400 Diesel Dealer Automatic Second Owner
38 50000 Petrol Individual Automatic First Owner
39 80000 Diesel Individual Manual First Owner
40 10000 Petrol Individual Manual First Owner
41 119000 Petrol Dealer Automatic First Owner
42 60000 Petrol Individual Manual Fourth & Above Owner
43 75800 Diesel Dealer Automatic Second Owner
44 78000 Diesel Dealer Automatic Third Owner
45 40000 Diesel Individual Manual First Owner
46 50000 Diesel Individual Manual First Owner
47 74000 Diesel Individual Manual Second Owner
48 64000 Petrol Individual Manual Second Owner
[ ]
import pandas as pd
df=pd.read_csv('/content/salbon.csv')
print(df)
print(df[['YEAR','SELLING PRICE']])
Unnamed: 0 CAR NAME YEAR
0 0 Maruti 800 AC 2007
1 1 Maruti Wagon R LXI Minor 2007
2 2 Hyundai Verna 1.6 SX 2012
3 3 Datsun RediGO T Option 2017
4 4 Honda Amaze VX i-DTEC 2014
5 5 Maruti Alto LX BSIII 2007
6 6 Hyundai Xcent 1.2 Kappa S 2016
7 7 Tata Indigo Grand Petrol 2014
8 8 Hyundai Creta 1.6 VTVT S 2015
9 9 Maruti Celerio Green VXI 2017
10 10 Chevrolet Sail 1.2 Base 2015
11 11 Tata Indigo Grand Petrol 2014
12 12 Toyota Corolla Altis 1.8 VL CVT 2018
13 13 Maruti 800 AC 2007
14 14 Maruti Wagon R LXI Minor 2007
15 15 Hyundai Verna 1.6 SX 2012
16 16 Datsun RediGO T Option 2017
17 17 Honda Amaze VX i-DTEC 2014
18 18 Maruti Alto LX BSIII 2007
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[ ]
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	13	13	Maruti 800 AC	2007
	14	14	Maruti Wagon R LXI Minor	2007
	15	15	Hyundai Verna 1.6 SX	2012
	16	16	Datsun RediGO T Option	2017
	17	17	Honda Amaze VX i-DTEC	2014
	18	18	Maruti Alto LX BSIII	2007
	19	19	Hyundai Xcent 1.2 Kappa S	2016
	20	20	Tata Indigo Grand Petrol	2014
	21	21	Hyundai Creta 1.6 VTVT S	2015
	22	22	Maruti Celerio Green VXI	2017
	23	23	Chevrolet Sail 1.2 Base	2015
	24	24	Tata Indigo Grand Petrol	2014
	25	25	Toyota Corolla Altis 1.8 VL CVT	2018
	26	26	Maruti Ciaz VXi Plus	2015
	27	27	Hyundai Venue SX Opt Diesel	2019
	28	28	Chevrolet Enjoy TCDi LTZ 7 Seater	2013
	29	29	Jaguar XF 2.2 Litre Luxury	2014
	30	30	Mercedes-Benz New C-Class 220 CDI AT	2013
	31	31	Maruti Vitara Brezza ZDi Plus AMT	2018
	32	32	Audi Q5 2.0 TDI	2011
	33	33	Honda City V MT	2018
	34	34	Tata Tigor 1.2 Revotron XT	2018
	35	35	Audi A6 2.0 TDI Design Edition	2013
	36	36	Mercedes-Benz New C-Class C 220 CDI Avantgarde	2012
	37	37	Skoda Superb Ambition 2.0 TDI CR AT	2011
	38	38	Toyota Corolla Altis G AT	2016
	39	39	Toyota Innova 2.5 G (Diesel) 7 Seater	2015
	40	40	Jeep Compass 1.4 Sport Plus BSIV	2019
	41	41	Mercedes-Benz E-Class E 200 CGI Elegance	2010
	42	42	Hyundai i10 Magna 1.1L	2014
	43	43	BMW 3 Series 320d Sport Line	2013
	44	44	Audi Q7 35 TDI Quattro Premium	2009
	45	45	Hyundai Elantra CRDi S	2012
	46	46	Mahindra Scorpio 1.99 S10	2014
	47	47	Honda City i DTEC V	2014
	48	48	Maruti Wagon R VXI BS IV with ABS	2014

	SELLING PRICE
0	60000
1	135000
2	600000
3	250000
4	450000
5	140000
6	550000
7	240000
8	850000

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	SELLING PRICE
0	60000
1	135000
2	600000
3	250000
4	450000
5	140000
6	550000
7	240000
8	850000
9	365000
10	260000
11	250000
12	1650000
13	60000
14	135000
15	600000
16	250000
17	450000
18	140000
19	550000
20	240000
21	850000
22	365000
23	260000
24	250000
25	1650000
26	585000
27	1195000
28	390000
29	1964999
30	1425000
31	975000
32	1190000
33	930000
34	525000
35	1735000
36	1375000
37	450000
38	900000
39	1300000
40	1400000
41	850000
42	229999
43	1550000

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```
[ ]  46       1050000
     47        560000
     48        290000
         YEAR  SELLING PRICE
     0   2007          60000
     1   2007         135000
     2   2012         600000
     3   2017         250000
     4   2014         450000
     5   2007         140000
     6   2016         550000
     7   2014         240000
     8   2015         850000
     9   2017         365000
     10  2015         260000
     11  2014         250000
     12  2018        1650000
     13  2007          60000
     14  2007         135000
     15  2012         600000
     16  2017         250000
     17  2014         450000
     18  2007         140000
     19  2016         550000
     20  2014         240000
     21  2015         850000
     22  2017         365000
     23  2015         260000
     24  2014         250000
     25  2018        1650000
     26  2015         585000
     27  2019        1195000
     28  2013         390000
     29  2014        1964999
     30  2013        1425000
     31  2018         975000
     32  2011        1190000
     33  2018         930000
     34  2018         525000
     35  2013        1735000
     36  2012        1375000
     37  2011         450000
     38  2016         900000
     39  2015        1300000
     40  2019        1400000
     41  2010         850000
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```
[ ] print(df.describe())
```

```
       Unnamed: 0         YEAR  SELLING PRICE
count    49.00000    49.000000   4.900000e+01
mean     24.00000  2013.693878   7.009183e+05
std      14.28869     3.392419   5.186658e+05
min       0.00000  2007.000000   6.000000e+04
25%      12.00000  2012.000000   2.500000e+05
50%      24.00000  2014.000000   5.500000e+05
75%      36.00000  2016.000000   1.050000e+06
max      48.00000  2019.000000   1.964999e+06
```

```
[ ] print(df.mean())
```

```
Unnamed: 0          24.000000
YEAR              2013.693878
SELLING PRICE    700918.326531
dtype: float64
<ipython-input-20-f98cceecb4a0>:1: FutureWarning: The default value of numeric_only in DataFrame.mean is deprecated. In a future version, it will default to False. In addition, specifying 'numeri
  print(df.mean())
```

```
[ ] print(df.max())
```

```
Unnamed: 0                                      48
CAR NAME        Toyota Innova 2.5 G (Diesel) 7 Seater
YEAR                                          2019
SELLING PRICE                              1964999
dtype: object
```

```
[ ] print(df['SELLING PRICE'].max())
```

```
1964999
```

```
[ ] print(df['SELLING PRICE'].describe())
```

```
count    4.900000e+01
mean     7.009183e+05
std      5.186658e+05
min      6.000000e+04
```

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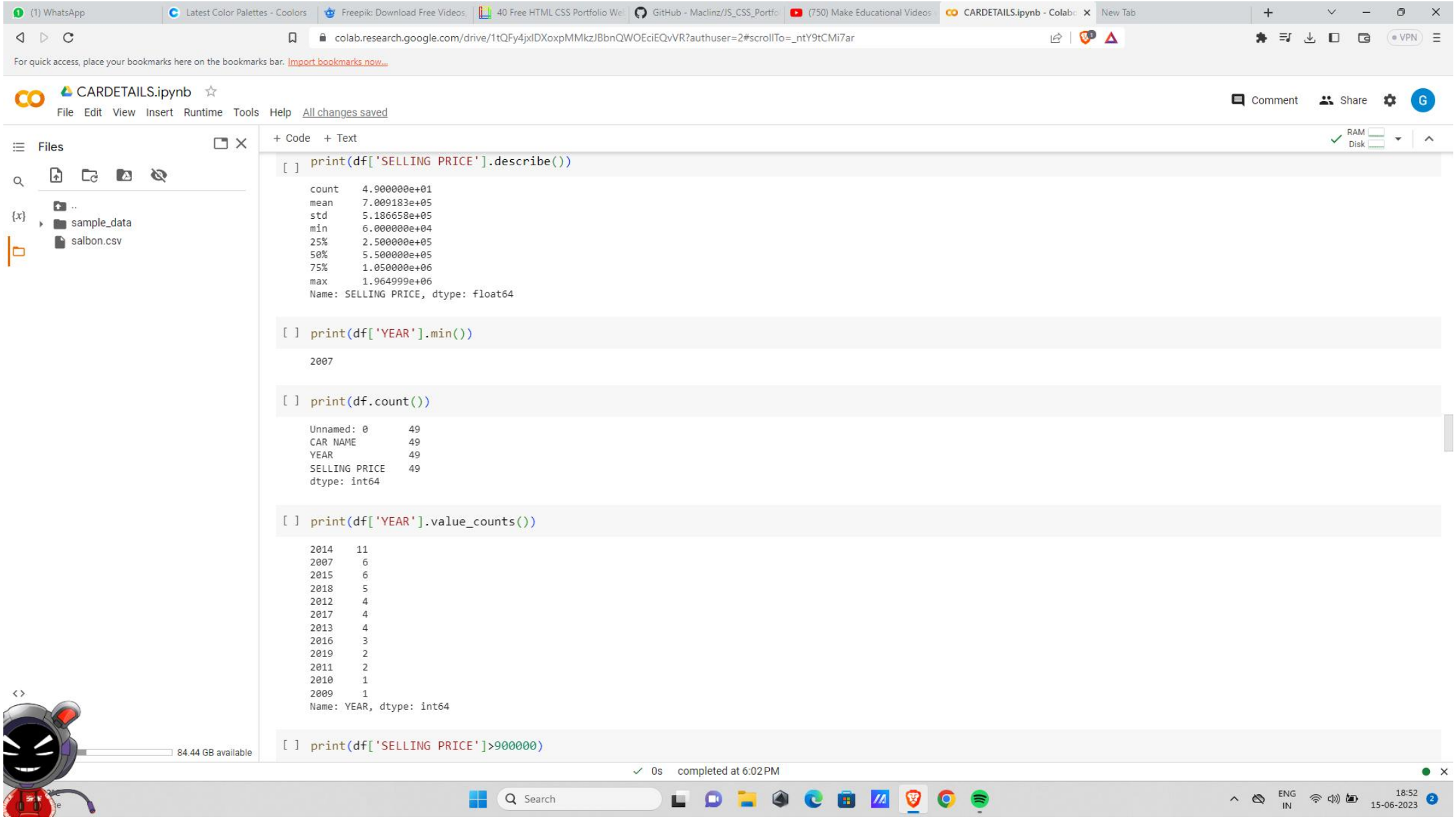
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[ ] print(df['SELLING PRICE'].describe())
count 4.900000e+01
mean 7.009183e+05
std 5.186658e+05
min 6.000000e+04
25% 2.500000e+05
50% 5.500000e+05
75% 1.050000e+06
max 1.964999e+06
Name: SELLING PRICE, dtype: float64
[ ] print(df['YEAR'].min())
2007
[ ] print(df.count())
Unnamed: 0 49
CAR NAME 49
YEAR 49
SELLING PRICE 49
dtype: int64
[ ] print(df['YEAR'].value_counts())
2014 11
2007 6
2015 6
2018 5
2012 4
2017 4
2013 4
2016 3
2019 2
2011 2
2010 1
2009 1
Name: YEAR, dtype: int64
[ ] print(df['SELLING PRICE']>900000)
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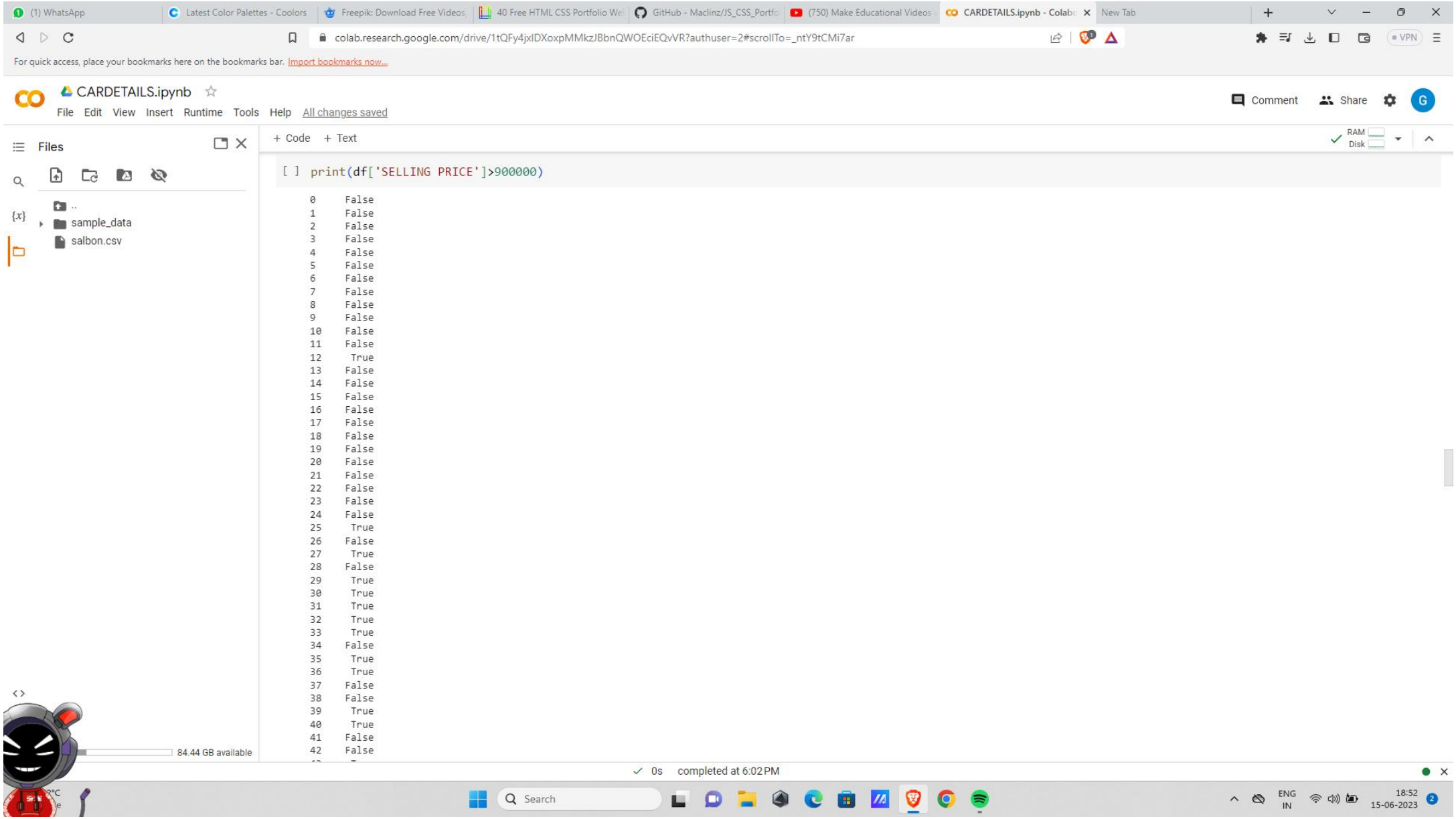
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[ ] print(df['SELLING PRICE']>900000)
0 False
1 False
2 False
3 False
4 False
5 False
6 False
7 False
8 False
9 False
10 False
11 False
12 True
13 False
14 False
15 False
16 False
17 False
18 False
19 False
20 False
21 False
22 False
23 False
24 False
25 True
26 False
27 True
28 False
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39 True
40 True
41 False
42 False
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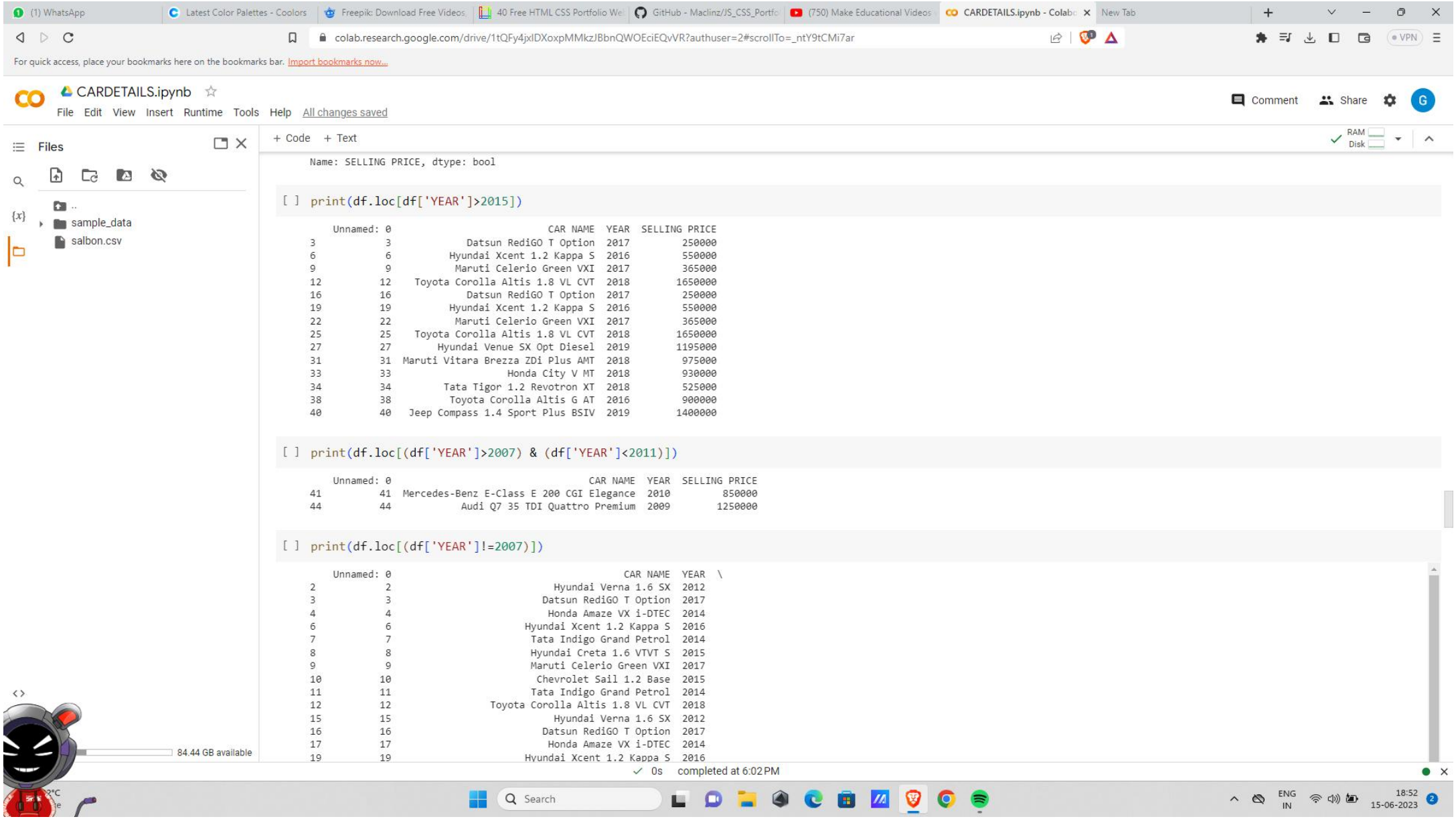
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Name: SELLING PRICE, dtype: bool
[ ] print(df.loc[df['YEAR']>2015])
Unnamed: 0 CAR NAME YEAR SELLING PRICE
3 3 Datsun RediGO T Option 2017 250000
6 6 Hyundai Xcent 1.2 Kappa S 2016 550000
9 9 Maruti Celerio Green VXI 2017 365000
12 12 Toyota Corolla Altis 1.8 VL CVT 2018 1650000
16 16 Datsun RediGO T Option 2017 250000
19 19 Hyundai Xcent 1.2 Kappa S 2016 550000
22 22 Maruti Celerio Green VXI 2017 365000
25 25 Toyota Corolla Altis 1.8 VL CVT 2018 1650000
27 27 Hyundai Venue SX Opt Diesel 2019 1195000
31 31 Maruti Vitara Brezza ZDi Plus AMT 2018 975000
33 33 Honda City V MT 2018 930000
34 34 Tata Tigor 1.2 Revotron XT 2018 525000
38 38 Toyota Corolla Altis G AT 2016 900000
40 40 Jeep Compass 1.4 Sport Plus BSIV 2019 1400000
[ ] print(df.loc[(df['YEAR']>2007) & (df['YEAR']<2011)])
Unnamed: 0 CAR NAME YEAR SELLING PRICE
41 41 Mercedes-Benz E-Class E 200 CGI Elegance 2010 850000
44 44 Audi Q7 35 TDI Quattro Premium 2009 1250000
[ ] print(df.loc[(df['YEAR']!=2007)])
Unnamed: 0 CAR NAME YEAR \
2 2 Hyundai Verna 1.6 SX 2012
3 3 Datsun RediGO T Option 2017
4 4 Honda Amaze VX i-DTEC 2014
6 6 Hyundai Xcent 1.2 Kappa S 2016
7 7 Tata Indigo Grand Petrol 2014
8 8 Hyundai Creta 1.6 VTVT S 2015
9 9 Maruti Celerio Green VXI 2017
10 10 Chevrolet Sail 1.2 Base 2015
11 11 Tata Indigo Grand Petrol 2014
12 12 Toyota Corolla Altis 1.8 VL CVT 2018
15 15 Hyundai Verna 1.6 SX 2012
16 16 Datsun RediGO T Option 2017
17 17 Honda Amaze VX i-DTEC 2014
19 19 Hyundai Xcent 1.2 Kappa S 2016
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21	21	Hyundai Creta 1.6 VTVT S	2015
22	22	Maruti Celerio Green VXI	2017
23	23	Chevrolet Sail 1.2 Base	2015
24	24	Tata Indigo Grand Petrol	2014
25	25	Toyota Corolla Altis 1.8 VL CVT	2018
26	26	Maruti Ciaz VXi Plus	2015
27	27	Hyundai Venue SX Opt Diesel	2019
28	28	Chevrolet Enjoy TCDi LTZ 7 Seater	2013
29	29	Jaguar XF 2.2 Litre Luxury	2014
30	30	Mercedes-Benz New C-Class 220 CDI AT	2013
31	31	Maruti Vitara Brezza ZDi Plus AMT	2018
32	32	Audi Q5 2.0 TDI	2011
33	33	Honda City V MT	2018
34	34	Tata Tigor 1.2 Revotron XT	2018
35	35	Audi A6 2.0 TDI Design Edition	2013
36	36	Mercedes-Benz New C-Class C 220 CDI Avantgarde	2012
37	37	Skoda Superb Ambition 2.0 TDI CR AT	2011
38	38	Toyota Corolla Altis G AT	2016
39	39	Toyota Innova 2.5 G (Diesel) 7 Seater	2015
40	40	Jeep Compass 1.4 Sport Plus BSIV	2019
41	41	Mercedes-Benz E-Class E 200 CGI Elegance	2010
42	42	Hyundai i10 Magna 1.1L	2014
43	43	BMW 3 Series 320d Sport Line	2013
44	44	Audi Q7 35 TDI Quattro Premium	2009
45	45	Hyundai Elantra CRDi S	2012
46	46	Mahindra Scorpio 1.99 S10	2014
47	47	Honda City i DTEC V	2014
48	48	Maruti Wagon R VXI BS IV with ABS	2014

	SELLING PRICE
2	600000
3	250000
4	450000
6	550000
7	240000
8	850000
9	365000
10	260000
11	250000
12	1650000
15	600000
16	250000
17	450000
19	550000
20	240000
21	850000

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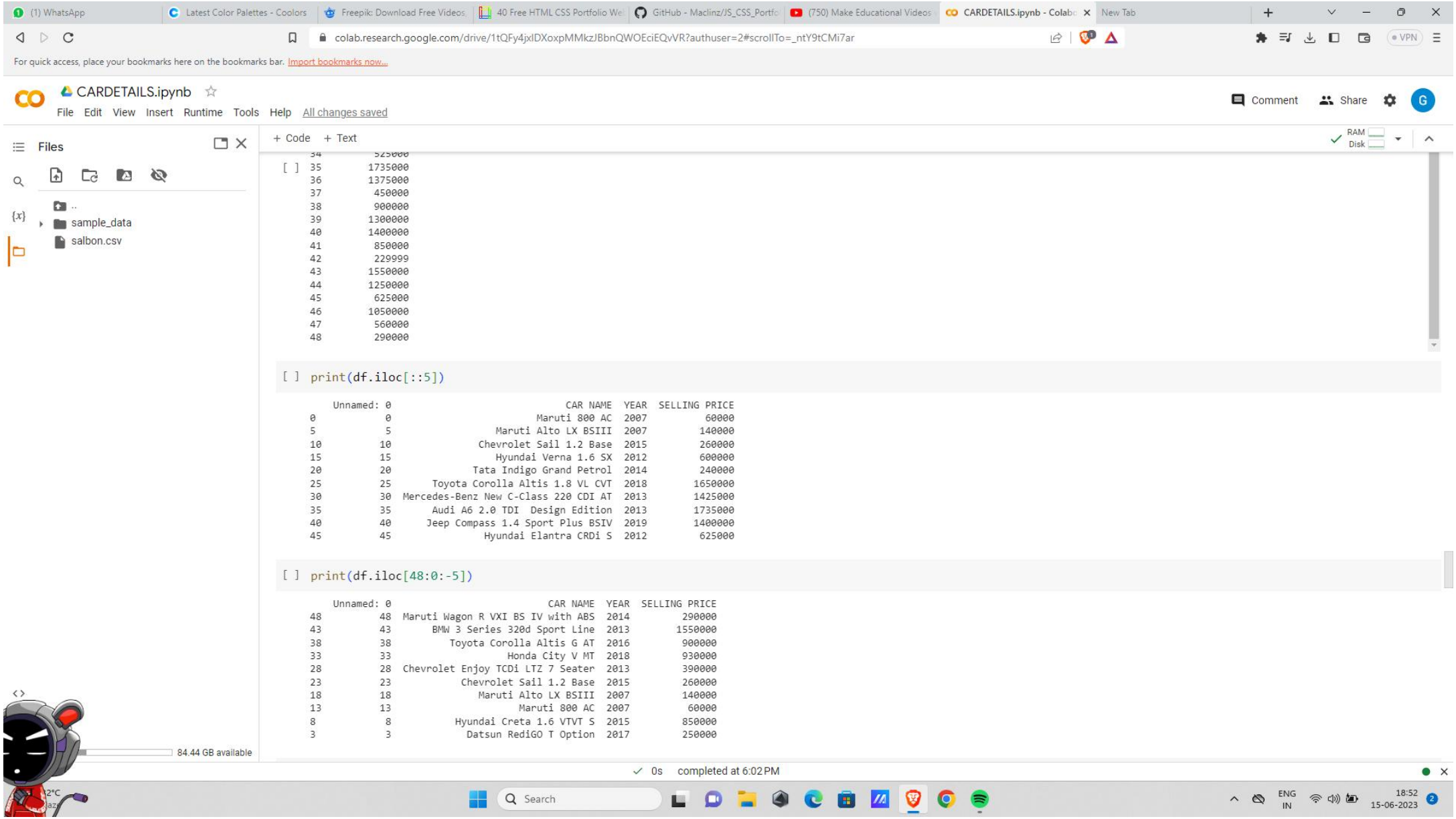
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34 525000
35 1735000
36 1375000
37 450000
38 900000
39 1300000
40 1400000
41 850000
42 229999
43 1550000
44 1250000
45 625000
46 1050000
47 560000
48 290000
print(df.iloc[::5])
Unnamed: 0 CAR NAME YEAR SELLING PRICE
0 0 Maruti 800 AC 2007 60000
5 5 Maruti Alto LX BSIII 2007 140000
10 10 Chevrolet Sail 1.2 Base 2015 260000
15 15 Hyundai Verna 1.6 SX 2012 600000
20 20 Tata Indigo Grand Petrol 2014 240000
25 25 Toyota Corolla Altis 1.8 VL CVT 2018 1650000
30 30 Mercedes-Benz New C-Class 220 CDI AT 2013 1425000
35 35 Audi A6 2.0 TDI Design Edition 2013 1735000
40 40 Jeep Compass 1.4 Sport Plus BSIV 2019 1400000
45 45 Hyundai Elantra CRDi S 2012 625000
print(df.iloc[48:0:-5])
Unnamed: 0 CAR NAME YEAR SELLING PRICE
48 48 Maruti Wagon R VXI BS IV with ABS 2014 290000
43 43 BMW 3 Series 320d Sport Line 2013 1550000
38 38 Toyota Corolla Altis G AT 2016 900000
33 33 Honda City V MT 2018 930000
28 28 Chevrolet Enjoy TCDi LTZ 7 Seater 2013 390000
23 23 Chevrolet Sail 1.2 Base 2015 260000
18 18 Maruti Alto LX BSIII 2007 140000
13 13 Maruti 800 AC 2007 60000
8 8 Hyundai Creta 1.6 VTVT S 2015 850000
3 3 Datsun RediGO T Option 2017 250000
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sample_data
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RAM Disk

```
[ ] print(df.head())
```

```
   Unnamed: 0                CAR NAME  YEAR  SELLING PRICE
0           0             Maruti 800 AC  2007          60000
1           1  Maruti Wagon R LXI Minor  2007         135000
2           2      Hyundai Verna 1.6 SX  2012         600000
3           3    Datsun RediGO T Option  2017         250000
4           4     Honda Amaze VX i-DTEC  2014         450000
```

```
[ ] print(df.tail())
```

```
    Unnamed: 0                       CAR NAME  YEAR  SELLING PRICE
44          44     Audi Q7 35 TDI Quattro Premium  2009        1250000
45          45             Hyundai Elantra CRDi S  2012         625000
46          46          Mahindra Scorpio 1.99 S10  2014        1050000
47          47                Honda City i DTEC V  2014         560000
48          48  Maruti Wagon R VXI BS IV with ABS  2014         290000
```

```
[ ] print(df.head(5))
```

```
   Unnamed: 0                CAR NAME  YEAR  SELLING PRICE
0           0             Maruti 800 AC  2007          60000
1           1  Maruti Wagon R LXI Minor  2007         135000
2           2      Hyundai Verna 1.6 SX  2012         600000
3           3    Datsun RediGO T Option  2017         250000
4           4     Honda Amaze VX i-DTEC  2014         450000
```

```
[ ] print(df.tail(5))
```

```
    Unnamed: 0                       CAR NAME  YEAR  SELLING PRICE
44          44     Audi Q7 35 TDI Quattro Premium  2009        1250000
45          45             Hyundai Elantra CRDi S  2012         625000
46          46          Mahindra Scorpio 1.99 S10  2014        1050000
47          47                Honda City i DTEC V  2014         560000
48          48  Maruti Wagon R VXI BS IV with ABS  2014         290000
```

```
[ ] print(df['SELLING PRICE'].sum())
```

```
34344998
```

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```
[ ] print(df['SELLING PRICE'].sum())
```

```
34344998
```

```
[ ] print(df.groupby('YEAR').sum())
```

```
      Unnamed: 0  SELLING PRICE
YEAR
2007          51         670000
2009          44        1250000
2010          41         850000
2011          69        1640000
2012          98        3200000
2013         136        5100000
2014         295        5974998
2015         127        4105000
2016          63        2000000
2017          50        1230000
2018         135        5730000
2019          67        2595000
<ipython-input-50-4e6d16efb4a8>:1: FutureWarning: The default value of numeric_only in DataFrameGroupBy.sum is deprecated. In a future version, numeric_only will default to False. Either specify
  print(df.groupby('YEAR').sum())
```

```
[ ] print(df.groupby('YEAR').min())
```

```
      Unnamed: 0                              CAR NAME  SELLING PRICE
YEAR
2007           0                          Maruti 800 AC          60000
2009          44          Audi Q7 35 TDI Quattro Premium        1250000
2010          41  Mercedes-Benz E-Class E 200 CGI Elegance         850000
2011          32                           Audi Q5 2.0 TDI         450000
2012           2                    Hyundai Elantra CRDi S         600000
2013          28          Audi A6 2.0 TDI  Design Edition         390000
2014           4                    Honda Amaze VX i-DTEC         229999
2015           8                 Chevrolet Sail 1.2 Base          260000
2016           6               Hyundai Xcent 1.2 Kappa S          550000
2017           3                  Datsun RediGO T Option         250000
2018          12                          Honda City V MT         525000
2019          27             Hyundai Venue SX Opt Diesel        1195000
```

```
[ ] print(df.groupby('YEAR').count())
```

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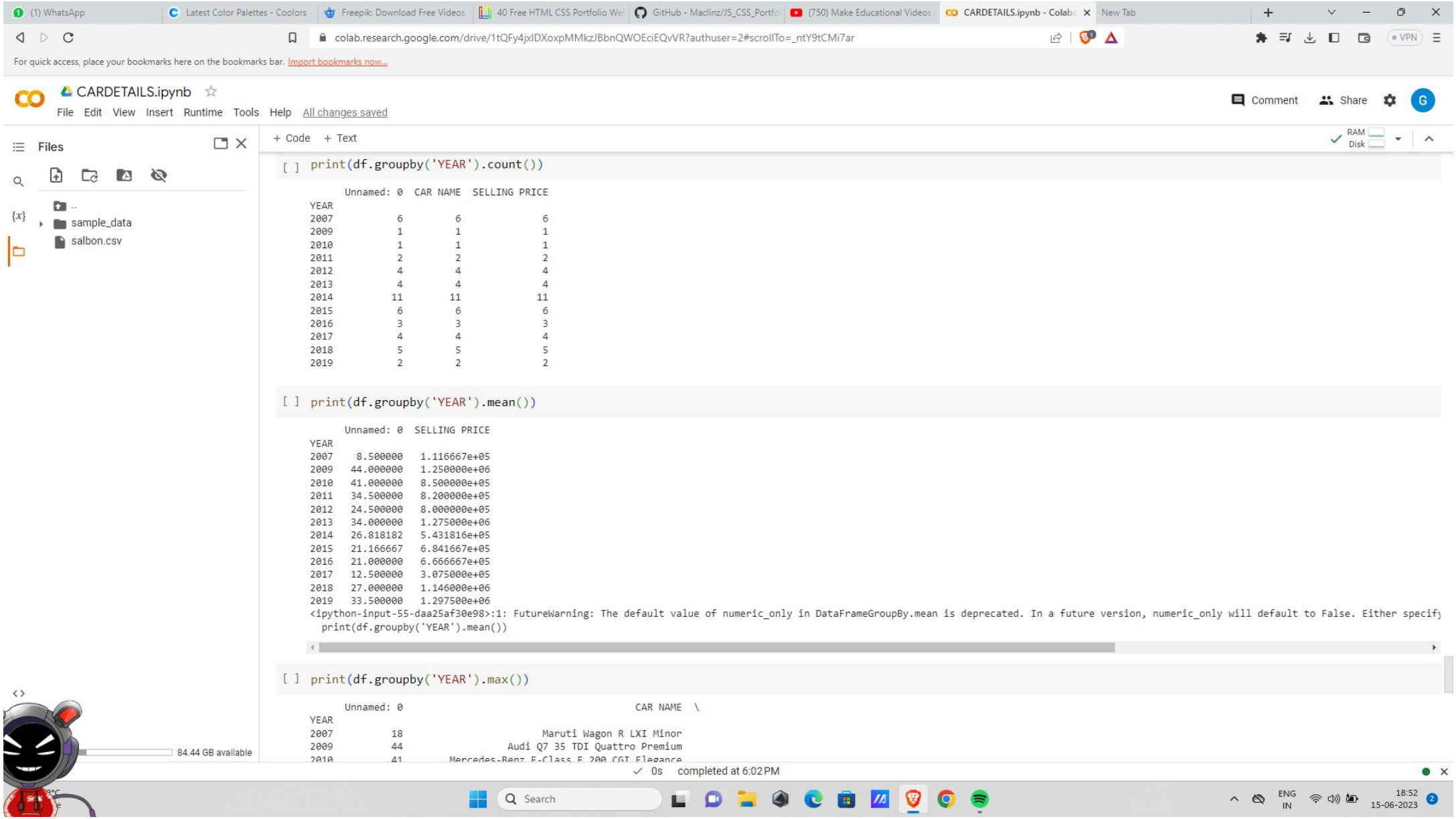
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[ ] print(df.groupby('YEAR').count())
Unnamed: 0 CAR NAME SELLING PRICE
YEAR
2007 6 6 6
2009 1 1 1
2010 1 1 1
2011 2 2 2
2012 4 4 4
2013 4 4 4
2014 11 11 11
2015 6 6 6
2016 3 3 3
2017 4 4 4
2018 5 5 5
2019 2 2 2
[ ] print(df.groupby('YEAR').mean())
Unnamed: 0 SELLING PRICE
YEAR
2007 8.500000 1.116667e+05
2009 44.000000 1.250000e+06
2010 41.000000 8.500000e+05
2011 34.500000 8.200000e+05
2012 24.500000 8.000000e+05
2013 34.000000 1.275000e+06
2014 26.818182 5.431816e+05
2015 21.166667 6.841667e+05
2016 21.000000 6.666667e+05
2017 12.500000 3.075000e+05
2018 27.000000 1.146000e+06
2019 33.500000 1.297500e+06
<ipython-input-55-daa25af30e98>:1: FutureWarning: The default value of numeric_only in DataFrameGroupBy.mean is deprecated. In a future version, numeric_only will default to False. Either specify
print(df.groupby('YEAR').mean())
[ ] print(df.groupby('YEAR').max())
Unnamed: 0 CAR NAME \
YEAR
2007 18 Maruti Wagon R LXI Minor
2009 44 Audi Q7 35 TDI Quattro Premium
2010 41 Mercedes-Benz E-Class E 200 CGI Elegance
84.44 GB available
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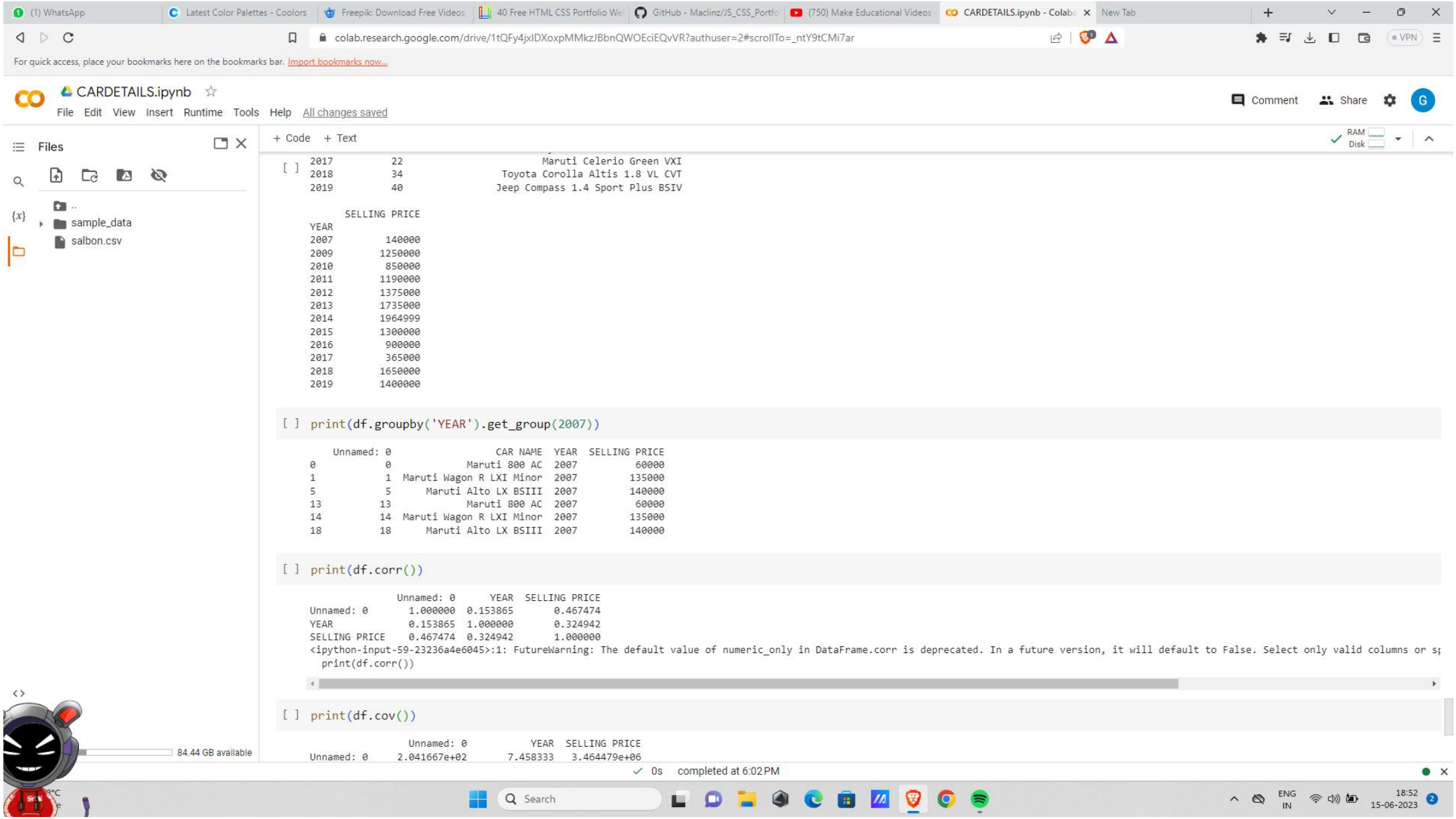
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2017 22 Maruti Celerio Green VXI
2018 34 Toyota Corolla Altis 1.8 VL CVT
2019 40 Jeep Compass 1.4 Sport Plus BSIV
SELLING PRICE
YEAR
2007 140000
2009 1250000
2010 850000
2011 1190000
2012 1375000
2013 1735000
2014 1964999
2015 1300000
2016 900000
2017 365000
2018 1650000
2019 1400000
print(df.groupby('YEAR').get_group(2007))
Unnamed: 0 CAR NAME YEAR SELLING PRICE
0 0 Maruti 800 AC 2007 60000
1 1 Maruti Wagon R LXI Minor 2007 135000
5 5 Maruti Alto LX BSIII 2007 140000
13 13 Maruti 800 AC 2007 60000
14 14 Maruti Wagon R LXI Minor 2007 135000
18 18 Maruti Alto LX BSIII 2007 140000
print(df.corr())
Unnamed: 0 YEAR SELLING PRICE
Unnamed: 0 1.000000 0.153865 0.467474
YEAR 0.153865 1.000000 0.324942
SELLING PRICE 0.467474 0.324942 1.000000
<ipython-input-59-23236a4e6045>:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid columns or s
print(df.corr())
print(df.cov())
Unnamed: 0 YEAR SELLING PRICE
Unnamed: 0 2.041667e+02 7.458333 3.464479e+06
84.44 GB available
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```
2013        1735000
2014        1964999
2015        1300000
2016         900000
2017         365000
2018        1650000
2019        1400000
```

```
print(df.groupby('YEAR').get_group(2007))
```

```
    Unnamed: 0                CAR NAME  YEAR  SELLING PRICE
0            0             Maruti 800 AC  2007          60000
1            1  Maruti Wagon R LXI Minor  2007         135000
5            5      Maruti Alto LX BSIII  2007         140000
13          13             Maruti 800 AC  2007          60000
14          14  Maruti Wagon R LXI Minor  2007         135000
18          18      Maruti Alto LX BSIII  2007         140000
```

```
print(df.corr())
```

```
                Unnamed: 0      YEAR  SELLING PRICE
Unnamed: 0        1.000000  0.153865       0.467474
YEAR              0.153865  1.000000       0.324942
SELLING PRICE     0.467474  0.324942       1.000000
<ipython-input-59-23236a4e6045>:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid columns or sp
  print(df.corr())
```

```
print(df.cov())
```

```
                  Unnamed: 0           YEAR  SELLING PRICE
Unnamed: 0      2.041667e+02       7.458333   3.464479e+06
YEAR            7.458333e+00      11.508503   5.717453e+05
SELLING PRICE   3.464479e+06  571745.310374   2.690142e+11
<ipython-input-60-0a12e4c3650a>:1: FutureWarning: The default value of numeric_only in DataFrame.cov is deprecated. In a future version, it will default to False. Select only valid columns or spe
  print(df.cov())
```