In [1]: import pandas as pd

In [4]: examdata = pd.read\_table("adminsheet.txt",header=None)
 examdata

C:\Users\Alekhya\Anaconda3\lib\site-packages\ipykernel\_launcher.py:1: FutureWar
ning: read\_table is deprecated, use read\_csv instead, passing sep='\t'.
"""Entry point for launching an IPython kernel.

## Out[4]:

- $\textbf{0} \qquad 34.62365962451697, 78.0246928153624, 0$
- 30.28671076822607,43.89499752400101,0
- 2 35.84740876993872,72.90219802708364,0
- 60.18259938620976,86.30855209546826,1
- 79.0327360507101,75.3443764369103,1
- 45.08327747668339,56.3163717815305,0
- 61.10666453684766,96.51142588489624,1
- 75.02474556738889,46.55401354116538,1
- 76.09878670226257,87.42056971926803,1
- 84.43281996120035,43.53339331072109,1
- 95.86155507093572,38.22527805795094,0
- 75.01365838958247,30.60326323428011,0
- 82.30705337399482,76.48196330235604,1
- 69.36458875970939,97.71869196188608,1
- 39.53833914367223,76.03681085115882,0
- 53.9710521485623,89.20735013750205,1
- 69.07014406283025,52.74046973016765,1
- 67.94685547711617,46.67857410673128,0
- 70.66150955499435,92.92713789364831,1
- 76.97878372747498,47.57596364975532,1
- 67.37202754570876,42.83843832029179,0
- 89.67677575072079,65.79936592745237,1
- 50.534788289883,48.85581152764205,0
- 34.21206097786789,44.20952859866288,0
- 77.9240914545704,68.9723599933059,1
- 62.27101367004632,69.95445795447587,1
- 80.1901807509566,44.82162893218353,1
- 93.114388797442,38.80067033713209,0
- 61.83020602312595,50.25610789244621,0
- 38.78580379679423,64.99568095539578,0

·· ·

69	66.74671856944039,60.99139402740988,1
70	32.72283304060323,43.30717306430063,0
71	64.0393204150601,78.03168802018232,1
72	72.34649422579923,96.22759296761404,1
73	60.45788573918959,73.09499809758037,1
74	58.84095621726802,75.85844831279042,1
75	99.82785779692128,72.36925193383885,1
76	47.26426910848174,88.47586499559782,1
77	50.45815980285988,75.80985952982456,1
78	60.45555629271532,42.50840943572217,0
79	82.22666157785568,42.71987853716458,0
80	88.9138964166533,69.80378889835472,1
81	94.83450672430196,45.69430680250754,1
82	67.31925746917527,66.58935317747915,1
83	57.23870631569862,59.51428198012956,1
84	80.36675600171273,90.96014789746954,1
85	68.46852178591112,85.59430710452014,1
86	42.0754545384731,78.84478600148043,0
87	75.47770200533905,90.42453899753964,1
88	78.63542434898018,96.64742716885644,1
89	52.34800398794107,60.76950525602592,0
90	94.09433112516793,77.15910509073893,1
91	90.44855097096364,87.50879176484702,1
92	55.48216114069585,35.57070347228866,0
93	74.49269241843041,84.84513684930135,1
94	89.84580670720979,45.35828361091658,1
95	83.48916274498238,48.38028579728175,1
96	42.2617008099817,87.10385094025457,1
97	99.31500880510394,68.77540947206617,1

## 99 rows × 1 columns

98

55.34001756003703,64.9319380069486,1

C:\Users\Alekhya\Anaconda3\lib\site-packages\ipykernel\_launcher.py:1: FutureWar
ning: read\_table is deprecated, use read\_csv instead.
 """Entry point for launching an IPython kernel.

## Out[6]:

	0	1	2
0	34.623660	78.024693	0
1	30.286711	43.894998	0
2	35.847409	72.902198	0
3	60.182599	86.308552	1
4	79.032736	75.344376	1
5	45.083277	56.316372	0
6	61.106665	96.511426	1
7	75.024746	46.554014	1
8	76.098787	87.420570	1
9	84.432820	43.533393	1
10	95.861555	38.225278	0
11	75.013658	30.603263	0
12	82.307053	76.481963	1
13	69.364589	97.718692	1
14	39.538339	76.036811	0
15	53.971052	89.207350	1
16	69.070144	52.740470	1
17	67.946855	46.678574	0
18	70.661510	92.927138	1
19	76.978784	47.575964	1
20	67.372028	42.838438	0
21	89.676776	65.799366	1
22	50.534788	48.855812	0
23	34.212061	44.209529	0
24	77.924091	68.972360	1
25	62.271014	69.954458	1
26	80.190181	44.821629	1
27	93.114389	38.800670	0
28	61.830206	50.256108	0
29	38.785804	64.995681	0
		•••	

```
0
                           2
    66.746719
               60.991394
69
    32.722833
              43.307173
                           0
    64.039320
               78.031688
                           1
    72.346494
               96.227593
                           1
    60.457886
              73.094998
    58.840956
              75.858448
                           1
    99.827858
              72.369252
                           1
    47.264269
               88.475865
                           1
    50.458160
               75.809860
                           1
    60.455556
              42.508409
                           0
    82.226662 42.719879
                           0
80
    88.913896
              69.803789
                           1
    94.834507
               45.694307
                           1
81
    67.319257
               66.589353
82
                           1
    57.238706
               59.514282
84
    80.366756
               90.960148
                           1
    68.468522 85.594307
                           1
85
86
    42.075455
              78.844786
                           0
   75.477702
              90.424539
87
                           1
    78.635424
88
               96.647427
                           1
89
    52.348004
               60.769505
                           0
90
    94.094331 77.159105
                           1
91
    90.448551
               87.508792
                           1
    55.482161
               35.570703
                           0
92
    74.492692
              84.845137
94
    89.845807
               45.358284
                           1
95
    83.489163
               48.380286
                           1
    42.261701
               87.103851
                           1
    99.315009
               68.775409
                           1
    55.340018 64.931938
                           1
```

99 rows × 3 columns

```
In [8]: examdata.isnull().sum()
```

Out[8]: 0 0 1 0 2 0

dtype: int64

```
In [9]: x = examdata[[0,1]]
         x.head()
 Out[9]:
                   0
                            1
          0 34.623660 78.024693
            30.286711 43.894998
          2 35.847409 72.902198
          3 60.182599 86.308552
          4 79.032736 75.344376
In [11]: y = examdata[2]
         y.head()
Out[11]: 0
              0
         1
              0
         2
              0
         3
              1
         4
         Name: 2, dtype: int64
In [12]: from sklearn.linear model import LogisticRegression
In [13]: log = LogisticRegression()
In [14]: log.fit(x,y)
         C:\Users\Alekhya\Anaconda3\lib\site-packages\sklearn\linear model\logistic.py:4
         33: FutureWarning: Default solver will be changed to 'lbfgs' in 0.22. Specify a
         solver to silence this warning.
           FutureWarning)
Out[14]: LogisticRegression(C=1.0, class weight=None, dual=False, fit intercept=True,
                   intercept scaling=1, max iter=100, multi class='warn',
                   n_jobs=None, penalty='12', random_state=None, solver='warn',
                   tol=0.0001, verbose=0, warm start=False)
In [15]: | pr = log.predict(x)
         pr
Out[15]: array([0, 0, 0, 1, 1, 0, 1, 1, 1, 1, 0, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1,
                0, 0, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 0, 0, 1, 1, 1, 0, 1, 0, 1, 1,
                0, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0, 1, 1, 1, 1, 1, 0, 0, 0, 0, 0,
                1, 0, 1, 1, 0, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1,
                1, 0, 1, 1, 0, 1, 1, 1, 1, 1, 1], dtype=int64)
         from sklearn.metrics import accuracy score,confusion matrix
In [16]:
In [17]: | accuracy_score(y,pr)
Out[17]: 0.8686868686868687
```