```
In [16]:
           import pandas as pk
           df = pk.read csv("C:/Users/aziz/Desktop/Downloads/Machine Learning/salaries.csv"
In [49]:
            df.head()
Out[49]:
               company
                                          job
                                                 degree
                                                         salary_more_then_100k
            0
                  google
                                sales executive
                                               bachelors
                                                                               0
            1
                                                                               0
                  google
                                sales executive
                                                 masters
            2
                  google
                             business manager
                                               bachelors
            3
                  google
                             business manager
                                                 masters
                                                                               0
                  google
                          computer programmer
                                               bachelors
In [50]:
            inputs = df.drop('salary more then 100k',axis='columns')
In [19]:
           target =df['salary_more_then_100k']
In [20]:
            inputs
Out[20]:
                  company
                                             job
                                                    degree
             0
                     google
                                   sales executive
                                                  bachelors
              1
                     google
                                   sales executive
                                                    masters
              2
                     google
                                business manager
                                                  bachelors
              3
                     google
                                business manager
                                                    masters
              4
                     google
                             computer programmer
                                                  bachelors
              5
                     google
                             computer programmer
                                                    masters
              6
                 abc pharma
                                   sales executive
                                                    masters
              7
                 abc pharma
                             computer programmer
                                                  bachelors
              8
                 abc pharma
                                business manager
                                                  bachelors
             9
                 abc pharma
                                business manager
                                                    masters
             10
                   facebook
                                   sales executive
                                                  bachelors
             11
                   facebook
                                   sales executive
                                                    masters
             12
                   facebook
                                business manager
                                                  bachelors
             13
                   facebook
                                business manager
                                                    masters
             14
                   facebook
                             computer programmer
                                                  bachelors
```

masters

15

facebook

computer programmer

```
In [21]: target
Out[21]: 0
               0
               0
         1
         2
               1
         3
               1
         4
               0
         5
               1
         6
               0
         7
               0
         8
               0
         9
               1
         10
               1
         11
               1
         12
               1
         13
               1
         14
               1
         15
         Name: salary_more_then_100k, dtype: int64
In [22]: from sklearn.preprocessing import LabelEncoder
In [34]:
         le_company = LabelEncoder()
         le job = LabelEncoder()
         le_degree = LabelEncoder()
In [35]:
         inputs['company_n'] = le_company.fit_transform(inputs['company'])
         inputs['job_n'] = le_job.fit_transform(inputs['job'])
         inputs['degree_n'] = le_degree.fit_transform(inputs['degree'])
```

In [36]: inputs

Out[36]:

	company	job	degree	company_n	job_n	degree_n
0	google	sales executive	bachelors	2	2	0
1	google	sales executive	masters	2	2	1
2	google	business manager	bachelors	2	0	0
3	google	business manager	masters	2	0	1
4	google	computer programmer	bachelors	2	1	0
5	google	computer programmer	masters	2	1	1
6	abc pharma	sales executive	masters	0	2	1
7	abc pharma	computer programmer	bachelors	0	1	0
8	abc pharma	business manager	bachelors	0	0	0
9	abc pharma	business manager	masters	0	0	1
10	facebook	sales executive	bachelors	1	2	0
11	facebook	sales executive	masters	1	2	1
12	facebook	business manager	bachelors	1	0	0
13	facebook	business manager	masters	1	0	1
14	facebook	computer programmer	bachelors	1	1	0
15	facebook	computer programmer	masters	1	1	1

```
In [38]: inputs_n = inputs.drop(['company','job','degree'],axis='columns')
```

In [39]: inputs\_n

Out[39]:

```
company_n job_n degree_n
             2
                              0
0
                    2
             2
1
                    2
                              1
             2
2
                    0
                              0
             2
3
                    0
             2
4
                    1
             2
5
                    1
                              1
                    2
6
7
             0
                    1
                              0
8
             0
                    0
                              0
9
                    0
10
                    2
                              0
                    2
11
12
                    0
13
                    0
14
                    1
                    1
15
             1
                              1
```

```
In [40]: target
Out[40]: 0
                 0
          1
                 0
          2
                 1
          3
                 1
          4
                 0
          5
                 1
          6
                 0
          7
                 0
          8
                 0
          9
                 1
          10
                 1
          11
                 1
          12
                 1
          13
                 1
          14
                 1
          15
                 1
          Name: salary_more_then_100k, dtype: int64
In [41]: | from sklearn import tree
```

In [42]: model = tree.DecisionTreeClassifier()