```
In [1]:
        import pandas as pd
        import numpy as np
        import matplotlib.pyplot as plt
        from sklearn.metrics import classification report
        from sklearn.preprocessing import StandardScaler
        from sklearn.linear model import LogisticRegression
```

In [2]: df=pd.read csv("HRDataset v14.csv")

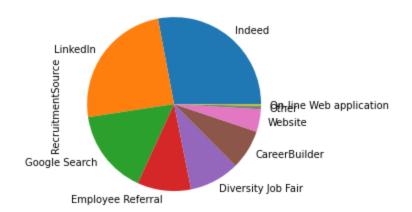
In [3]:

Out[3]:		Employee_Name	EmpID	MarriedID	MaritalStatusID	GenderID	EmpStatusID	DeptID	PerfScoreID	FromDiver
-	0	Adinolfi, Wilson K	10026	0	0	1	1	5	4	
	1	Ait Sidi, Karthikeyan	10084	1	1	1	5	3	3	
	2	Akinkuolie, Sarah	10196	1	1	0	5	5	3	
	3	Alagbe, Trina	10088	1	1	0	1	5	3	
	4	Anderson, Carol	10069	0	2	0	5	5	3	
	•••							•••		
	306	Woodson, Jason	10135	0	0	1	1	5	3	
	307	Ybarra, Catherine	10301	0	0	0	5	5	1	
	308	Zamora, Jennifer	10010	0	0	0	1	3	4	
	309	Zhou, Julia	10043	0	0	0	1	3	3	
	310	Zima, Colleen	10271	0	4	0	1	5	3	

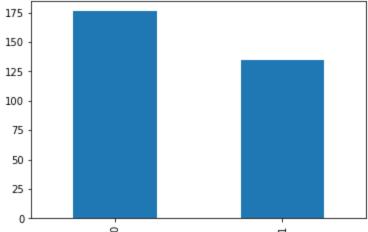
311 rows × 36 columns

```
In [ ]:
```

```
In [4]:
        df["RecruitmentSource"].value counts().plot(kind="pie")
        plt.show()
```



```
df["MarriedID"].value_counts()
         #not married 187
         #married 124
             187
Out[5]:
        1
             124
        Name: MarriedID, dtype: int64
In [6]:
         df["GenderID"].value_counts().plot(kind="bar")
         plt.show()
         # 0 represent the male
         # 1 represent the female
        175
        150
        125
        100
```



```
In [7]:
         df=pd.read_csv("HR_comma_sep.csv")
```

In [8]:

df

Out[8]:		satisfaction_level	last_evaluation	number_project	average_montly_hours	time_spend_company	Work_acciden
	0	0.38	0.53	2	157	3	(
	1	0.80	0.86	5	262	6	(
	2	0.11	0.88	7	272	4	(
	3	0.72	0.87	5	223	5	(
	4	0.37	0.52	2	159	3	(
	•••						
14	994	0.40	0.57	2	151	3	1
14	995	0.37	0.48	2	160	3	1
14	996	0.37	0.53	2	143	3	1
14	997	0.11	0.96	6	280	4	1
14	998	0.37	0.52	2	158	3	1

14999 rows × 10 columns

```
In [9]:
        df.pop('satisfaction_level')
```

0.38 Out[9]:

```
1
        0.80
2
        0.11
3
        0.72
4
        0.37
        . . .
14994
      0.40
14995
      0.37
      0.37
14996
      0.11
14997
14998 0.37
Name: satisfaction level, Length: 14999, dtype: float64
```

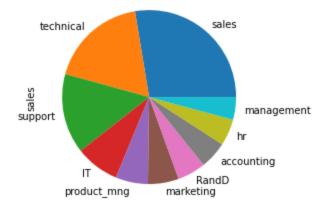
In [10]:

df

Out[10]:		last_evaluation	number_project	average_montly_hours	time_spend_company	Work_accident	left	promotion
	0	0.53	2	157	3	0	1	
	1	0.86	5	262	6	0	1	
	2	0.88	7	272	4	0	1	
	3	0.87	5	223	5	0	1	
	4	0.52	2	159	3	0	1	
	•••							
	14994	0.57	2	151	3	0	1	
	14995	0.48	2	160	3	0	1	
	14996	0.53	2	143	3	0	1	
	14997	0.96	6	280	4	0	1	
	14998	0.52	2	158	3	0	1	

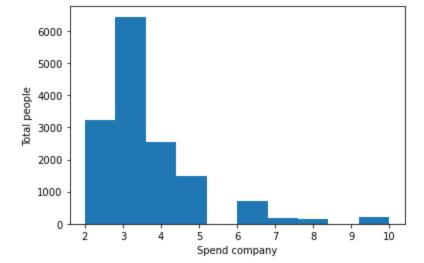
14999 rows × 9 columns

```
In [11]: df["sales"].value_counts().plot(kind="pie")
   plt.show()
```



```
In [12]: plt.hist(df['time_spend_company'])
    plt.xlabel("Spend company")
    plt.ylabel("Total people")
```

Out[12]: Text(0, 0.5, 'Total people')



In [ ]: