```
In [2]: import pandas as pd
    from sklearn.model_selection import train_test_split
    from sklearn.preprocessing import StandardScaler
    from sklearn.metrics import accuracy_score,classification_report
    from sklearn.neighbors import KNeighborsClassifier
    from sklearn.preprocessing import OrdinalEncoder
```

Out[3]:	Name	Age	Gender	JobRole	Experience	WorkHoursPerWeek	RemoteRatio	Satis
() Max Ivanov	32	Male	Analyst	3	60	21	
:	L Max Wang	40	Female	Engineer	9	47	67	
:	Nina Petrov	33	Female	Engineer	2	44	20	
;	John Ivanov	35	Female	Manager	6	44	70	
4	John Wang	59	Male	Sales	8	38	46	
1999	Leo Brown	41	Female	Manager	4	63	17	
1990	Alex Brown	23	Female	HR	2	39	20	
1997	Nina Wang	31	Female	HR	10	39	4	
1998	Kate Lee	25	Male	HR	0	40	57	
1999	Lily Petrov	49	Female	Engineer	13	65	22	

2000 rows × 10 columns

Out[5]:		Age	Gender	JobRole	Experience	WorkHou	ursPerWeek	RemoteRatio	SatisfactionL		
	0	32	Male	Analyst	3		60	21			
	1	40	Female	Engineer	9		47	67			
	2	33	Female	Engineer	2		44	20			
	3	35	Female	Manager	6		44	70			
	4	59	Male	Sales	8		38	46			
	1995	41	Female	Manager	4		63	17			
	1996	23	Female	HR	2		39	20			
	1997	31	Female	HR	10		39	4			
	1998	25	Male	HR	0		40	57			
	1999	49	Female	Engineer	13		65	22			
2000 rows × 8 columns											
In [6]:	x_tra	in,x_	test,y_	train,y_	test=train _.	_test_spl	lit(x,y,te	st_size=0.25))		
In [7]:	<pre>: string_numerical = ["Gender", "JobRole"] oe = OrdinalEncoder() x_train[string_numerical] = oe.fit_transform(x_train[string_numerical]) x_test[string_numerical] = oe.transform(x_test[string_numerical])</pre>										
In [8]:	<pre>B]: model= StandardScaler() x_train=model.fit_transform(x_train) x_test=model.transform(x_test)</pre>										
In [9]:	<pre>Discrete model=KNeighborsClassifier(n_neighbors=5) model.fit(x_train,y_train) p=model.predict(x_test)</pre>										
In [10]:	<pre>In [10]: accuracy_score(y_test,p)*100</pre>										
Out[10]:	96.6										
In [11]:	<pre>: print(classification_report(y_test,p))</pre>										
			prec	ision	recall f	1-score	support				
			0 1	0.97 0.76	0.99 0.57	0.98 0.65	472 28				
		curad ro av ed av	/g	0.87 0.96	0.78 0.97	0.97 0.82 0.96	500 500 500				