Assignment 3.1

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Code:

```
import pandas as pd

df=pd.read_csv('data.csv')

df['diagnosis'] = df['diagnosis'].astype('category')

df['diagnosis'] = df['diagnosis'].cat.codes

print(df)
```

```
| Cest.py - 3.1 - Vasual Studio Code | Cest.py -
```

Before encode diagnosis:

After encode diagnosis

td	diagnosis	radius mean	texture mean	perimeter_mean	area mean	compactness worst	concavity worst	concave points worst	symmetry worst	fractal_dimension_worst	Unnamed:	32
842302		17.99	10.38	122.80	1001.0	0.66560	0.7119	0.2654	0.4601	0.11890		NaN
842517		20.57	17.77	132.98	1326.0	0.18660	0.2416	0.1860	0.2750	0.08902		NaN
84300903		19.69	21.25	130.00	1203.0	0.42450	0.4504	0.2430	0.3613	0.08758		NaN
84348301		11.42	20.38	77.58	386.1	0.86630	0.6869	0.2575	0.6638	0.17300		NaN
84358402		20.29	14.34	135.10	1297.0	0.20500	0.4000	0.1625	0.2364	0.07678		NaN
926424		21.56	22.39	142.00		0.21130	0.4107	0.2216	0.2060	0.07115		NaN
926682		20.13	28.25	131.20	1261.0	0.19220	0.3215	0.1628	0.2572	0.06637		NaN
926954		16.60	28.08	108.30	858.1	0.30940	0.3403	0.1418	0.2218	0.07820		NaN
927241		20.60	29.33	140.10	1265.0	0.86810	0.9387	0.2650	0.4087	0.12400		NaN
92751	0	7.76	24.54	47.92	181.0	0.06444	0.0000	0.0000	0.2871	0.07039		NaN