```
import pandas as pd
```

import numpy as np

path = '/content/heartdisease.csv'

df=pd.read\_csv(path)

df

| ₽ | U   | nnamed: 0 | Age | Sex | ChestPain    | RestBP | Chol | Fbs | RestECG | MaxHR | ExAng | Oldpeak | Slope | Ca  | Thal       | AHD |
|---|-----|-----------|-----|-----|--------------|--------|------|-----|---------|-------|-------|---------|-------|-----|------------|-----|
|   | 0   | 1         | 63  | 1   | typical      | 145    | 233  | 1   | 2       | 150   | 0     | 2.3     | 3     | 0.0 | fixed      | No  |
|   | 1   | 2         | 67  | 1   | asymptomatic | 160    | 286  | 0   | 2       | 108   | 1     | 1.5     | 2     | 3.0 | normal     | Yes |
|   | 2   | 3         | 67  | 1   | asymptomatic | 120    | 229  | 0   | 2       | 129   | 1     | 2.6     | 2     | 2.0 | reversable | Yes |
|   | 3   | 4         | 37  | 1   | nonanginal   | 130    | 250  | 0   | 0       | 187   | 0     | 3.5     | 3     | 0.0 | normal     | No  |
|   | 4   | 5         | 41  | 0   | nontypical   | 130    | 204  | 0   | 2       | 172   | 0     | 1.4     | 1     | 0.0 | normal     | No  |
|   |     |           |     |     |              |        |      |     |         |       |       |         |       |     |            |     |
|   | 298 | 299       | 45  | 1   | typical      | 110    | 264  | 0   | 0       | 132   | 0     | 1.2     | 2     | 0.0 | reversable | Yes |
|   | 299 | 300       | 68  | 1   | asymptomatic | 144    | 193  | 1   | 0       | 141   | 0     | 3.4     | 2     | 2.0 | reversable | Yes |
|   | 300 | 301       | 57  | 1   | asymptomatic | 130    | 131  | 0   | 0       | 115   | 1     | 1.2     | 2     | 1.0 | reversable | Yes |
|   | 301 | 302       | 57  | 0   | nontypical   | 130    | 236  | 0   | 2       | 174   | 0     | 0.0     | 2     | 1.0 | normal     | Yes |
|   | 302 | 303       | 38  | 1   | nonanginal   | 138    | 175  | 0   | 0       | 173   | 0     | 0.0     | 1     | NaN | normal     | No  |

303 rows × 15 columns

df.isnull().sum()

Unnamed: 0 0 Age 0 Sex  ${\tt ChestPain}$ 0 RestBP 0 Chol Fbs RestECG 0 MaxHR 0 0 ExAng Oldpeak 0 Slope 0 Ca 4 Thal 2 AHD 0 dtype: int64

df.isna().any()

Unnamed: 0 False Age False Sex False ChestPain False RestBP False Chol False Fbs False RestECG False MaxHR False ExAng Oldpeak False False Slope False Ca True Thal True AHD False dtype: bool

#Error Correction
df.Ca.value\_counts()

0.0 176 1.0 65 2.0 38 3.0 20

Name: Ca, dtype: int64

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