Name: Pratik Pachputr

Roll no: 645

```
pd.read_csv("/content/Disease_symptom_and_patient_profile_dataset.csv")
Ouput:
index, Disease, Fever, Cough, Fatigue, Difficulty
Breathing, Age, Gender, Blood Pressure, Cholester ol Level, Outcome Variable\\
O,Influenza,Yes,No,Yes,Yes,19,Female,Low,Normal,Positive
1,CommonCold,No,Yes,Yes,No,25,Female,Normal,Normal,Negative2,Eczema,No,Yes,Yes,No,
25,Female,Normal,Normal,Negative
3, Asthma, Yes, Yes, No, Yes, 25, Male, Normal, Normal, Positive
4,Asthma,Yes,Yes,No,Yes,25,Male,Normal,Normal,Positive
5,Eczema, Yes, No, No, No, 25, Female, Normal, Normal, Positive
6,Influenza,Yes,Yes,Yes,Yes,Yes,Yes,Yes,Yes,Yes,Normal,Normal,Positive7,Influenza,Yes,Yes,Yes,Yes,Yes,25,
Female, Normal, Normal, Positive
8, Hyperthyroidism, No, Yes, No, No, 28, Female, Normal, Normal, Negative
9, Hyperthyroidism, No, Yes, No, No, 28, Female, Normal, Normal, Negative
10,Asthma,Yes,No,No,Yes,28,Male,High,Normal,Positive
11, Allergic Rhinitis, No, Yes, Yes, No, 29, Female, Normal, Low, Negative
12, Anxiety
Disorders, No, Yes, No, No, 29, Female, Normal, High, Negative 13, Commo
nCold,No,No,No,No,29,Female,Low,Normal,Negative
14, Diabetes, No, No, No, No, 29, Male, Low, Normal, Negative
15, Gastroenteritis, No, Yes, No, No, 29, Female, Normal, Normal, Negative 16, Pancreatitis, Yes, No,
No, No, 29, Female, High, Normal, Negative
17,Rheumatoid
```

Yes, Yes, Yes, Yes, 29, Male, High, Normal, Positive

Arthritis, No, Yes, Yes, Yes, 29, Female, High, High, Negative 18, Depression,

19,Liver

Cancer, Yes, Yes, Yes, Yes, 29, Female, Normal, Normal, Positive 20, Strok

e,Yes,Yes,Yes,Yes,29,Female,Normal,Normal,Positive

21,Urinary Tract

Infection, Yes, Yes, Yes, No, 29, Male, High, High, Positive 22, Dengue

Fever, Yes, No, Yes, No, 30, Female, Normal, Normal, Negative 23, Dengue

Fever, Yes, No, Yes, No, 30, Female, Normal, Normal, Negative 24, Eczema,

No, Yes, Yes, No, 30, Male, High, High, Negative

25, Gastroenteritis, Yes, Yes, Yes, No, 30, Male, High, Negative 26, Hepatitis, Yes, Yes, Yes, Yes, 30

,Male,High,Normal,Negative

27, Kidney Cancer, No, No, Yes, No, 30, Male, Normal, Normal, Negative 28, Migraine, Yes, No, No, No,

30, Female, Normal, Normal, Negative

29, Migraine, No, Yes, Yes, No, 30, Female, Normal, Normal, Negative

30, Muscular Dystrophy, No, No, Yes, No, 30, Male, High, High, Negative 31, Sinusitis, No, Yes, Yes, No,

30, Male, Normal, Normal, Negative

32,Ulcerative

Colitis, Yes, Yes, No, No, 30, Female, Normal, Normal, Negative 33, Ulcerative

Colitis, No, Yes, Yes, No, 30, Female, Normal, Normal, Negative 34, Asthma, Ye

s,Yes,No,Yes,30,Female,Normal,Normal,Positive

35, Asthma, Yes, Yes, No, Yes, 30, Female, Normal, Normal, Positive 36, Asthma, Yes, Yes, Yes, Yes, 30, F

emale,Normal,Normal,Positive

37,BipolarDisorder,No,No,Yes,No,30,Female,High,High,Positive38,Bronchitis,Yes,Yes,No,Yes,

30,Female,Low,Normal,Positive

39, Bronchitis, Yes, Yes, Yes, Yes, Yes, 30, Male, High, Positive 40, Bronchitis, Yes, Yes, Yes, Yes, 30, Mal

e, High, High, Positive

41,Cerebral

Palsy,No,No,Yes,Yes,30,Female,Normal,Normal,Positive42,Colorect

al

Cancer, No, No, Yes, No, 30, Female, Normal, High, Positive 43, Eczema, Ye

s,No,No,No,30,Male,High,High,Positive

44, Hypertensive Heart

Disease, No, No, Yes, No, 30, Female, High, High, Positive 45, Influenza, Yes, Yes, Y



es,No,30,Male,High,Normal,Positive

46,Influenza,Yes,Yes,Yes,Yes,30,Female,Normal,Normal,Positive

47, Multiple Sclerosis, No, No, Yes, No, 30, Female, High, High, Positive

- 48, Myocardial Infarction (Heart..., Yes, Yes, Yes, Yes, 30, Female, High, High, Positive
- 49, Urinary TractIn fection (UTI), Yes, No, No, No, 30, Female, Normal, Positive 50, Asthma, Normal,
- o,No,No,Yes,31,Male,Normal,Low,Negative
- 51,Osteoporosis,No,No,No,Yes,31,Male,Low,Normal,Negative52,Com
- monCold,Yes,No,Yes,Yes,31,Male,High,High,Positive
- 53, Migraine, Yes, No, No, No, 31, Female, Normal, Normal, Positive 54, Pneumonia, Yes, No, Yes, Yes,
- 32,Female,High,Normal,Positive
- 55, Allergic Rhinitis, No, No, Yes, No, 35, Female, Normal, Low, Negative 56, Asthma, No, Yes, Yes, Yes,
- 35, Female, Normal, High, Negative
- 57, Asthma, Yes, Yes, Yes, Yes, 35, Female, Normal, Normal, Negative 58, Asthma, No, Yes, Yes, Yes, 35,
- Female, High, Normal, Negative
- 59, Asthma, No, Yes, Yes, Yes, 35, Female, High, Normal, Negative
- 60, Atherosclerosis, No, No, Yes, No, 35, Male, Normal, Normal, Negative
- 61, Chronic Obstructive Pulmonary..., Yes, Yes, Yes, Yes, 35, Male, Normal, Normal, Negative 62, Com
- monCold,Yes,Yes,Yes,No,35,Male,High,Normal,Negative
- 63, Eczema, No, Yes, No, No, 35, Male, High, Normal, Negative 64, Epilepsy, No, No, Yes, No, 35, Male,
- High, High, Negative
- 65, Hypertension, Yes, Yes, Yes, No, 35, Female, High, Normal, Negative
- 66, Hyperthyroidism, Yes, Yes, Yes, No, 35, Female, Normal, Normal, Negative
- 67,Obsessive-Compulsive
- ,Female,Normal,Normal,Negative
- 69, Pneumonia, Yes, Yes, Yes, Yes, Yes, St., Female, Normal, Normal, Negative 70, Psoriasis, Yes, No, No, No
- ,35,Female,Normal,Low,Negative
- 71, Psoriasis, No, Yes, Yes, No, 35, Female, Normal, Low, Negative
- 72, Rubella, Yes, No, Yes, No, 35, Female, High, Normal, Negative
- 73, Rubella, Yes, No, Yes, No, 35, Female, High, Normal, Negative
- 74, Urinary TractInfection (UTI), No, Yes, Yes, No, 35, Male, High, High, Negative 75, Asthma, Yes, Yes,
- No, Yes, 35, Male, Normal, Normal, Positive
- 76, Asthma, Yes, Yes, No, Yes, 35, Male, Normal, Normal, Positive



77, Cirrhosis, No, No, Yes, No, 35, Female, Normal, High, Positive

78, Conjunctivitis (Pink

Eye), No, Yes, No, No, 35, Female, High, High, Positive 79, Depression, No, No,

Yes,No,35,Female,Normal,High,Positive

80, Gastroenteritis, Yes, No, Yes, Yes, 35, Male, Low, High, Positive

81, Hyperthyroidism, Yes, Yes, Yes, No, 35, Male, High, High, Positive

82, Hyperthyroidism, Yes, Yes, Yes, No, 35, Male, High, High, Positive

83, Kidney Cancer, No, No, Yes, No, 35, Male, High, High, Positive

84, Liver Cancer, No, No, Yes, No, 35, Female, High, High, Positive 85,

Liver

Disease, No, No, Yes, No, 35, Male, High, High, Positive 86, Malaria,

Yes, No, No, No, 35, Male, High, High, Positive

87, Malaria, Yes, No, No, No, No, 35, Male, High, High, Positive 88, Migraine, No, Yes, Yes, No, 35, Male, Hig

h, High, Positive 89, Migraine, Yes, No, No, No, 35, Male, High, High, Positive

90, Pancreatitis, No, No, Yes, No, 35, Male, Normal, High, Positive

91,Rheumatoid

Arthritis, Yes, Yes, Yes, No, 35, Male, Normal, Low, Positive 92, Rheumatoid Arth

ritis,No,No,Yes,No,35,Female,Normal,Low,Positive93,SpinaBifida,No,No,Y

es,No,35,Female,Normal,Normal,Positive

94,Ulcerative

Colitis, No, No, Yes, No, 35, Male, High, High, Positive 95, Ulcerative

Colitis, Yes, No, No, No, 35, Male, High, High, Positive

96, Urinary

TractInfection, Yes, No, Yes, No, 35, Female, Normal, High, Positive 97, Allergic R

hinitis,No,Yes,No,No,38,Female,Low,Normal,Negative

98, Depression, No, No, No, No, 38, Female, Normal, High, Negative

99, Gastroenteritis, No, No, No, No, 38, Male, Normal, Low, Negative

100,Influenza,No,No,No,No,No,38,Male,Normal,Normal,Negative

101, Kidney Disease, No, No, Yes, No, 38, Female, Low, Normal, Negative 102, Liv

erCancer, Yes, Yes, No, No, 38, Female, High, Normal, Negative

103,LiverDisease,No,Yes,No,Yes,38,Male,Low,Normal,Negative

104,Osteoporosis,No,Yes,No,No,38,Female,Normal,High,Negative105,Stroke,Yes,Yes,No,No,



38,Female,High,Normal,Negative

106,Anxiety

Disorders, Yes, No, Yes, Yes, 38, Male, High, Positive 107, Diabetes, Yes, No, Yes, Yes, 38, Male, High, Low, Positive

108, Migraine, Yes, Yes, No, No, 38, Male, High, High, Positive

109,Osteoarthritis,Yes,Yes,Yes,No,38,Male,High,High,Positive

110, Pneumonia, Yes, Yes, Yes, Yes, 38, Male, Normal, Normal, Positive

111,Klinefelter

Syndrome, No, No, Yes, No, 39, Female, Normal, Normal, Positive 112, Acne, No, N

o, Yes, No, 40, Male, Normal, Normal, Negative

113,Brain

Tumor, No, No, Yes, No, 40, Male, Normal, Normal, Negative 114, Bronc

hitis, No, Yes, No, Yes, 40, Female, Normal, Normal, Negative 115, Cystic

Fibrosis, No, No, Yes, Yes, 40, Male, High, High, Negative

116, Diabetes, Yes, No, No, No, 40, Female, High, High, Negative

117, Glaucoma, No, No, Yes, No, 40, Male, High, Normal, Negative

118,Osteoarthritis,No,No,Yes,No,40,Male,High,Normal,Negative119,Rabies,Yes,Yes,No,No,4

0,Female,High,Normal,Negative

120, Rabies, Yes, Yes, No, No, 40, Female, High, Normal, Negative 121, Asthma, Yes, No, Yes, No, 40, Male, Low, Normal, Positive

122, Asthma, Yes, Yes, No, Yes, 40, Female, Normal, Normal, Positive

123, Asthma, Yes, Yes, No, Yes, 40, Female, Normal, Normal, Positive

124, Asthma, No, No, Yes, Yes, 40, Male, High, High, Positive

125,Asthma,Yes,No,Yes,Yes,40,Male,Normal,High,Positive126,Asthma,Yes,No,Yes,Yes,40,Male,Normal,High,Positive

127, Chickenpox, No, Yes, No, No, 40, Male, Normal, High, Positive 128, Chickenpox, No, Yes, No, No, 4

0, Male, Normal, High, Positive

129, Coronary Artery Disease, No, No, Yes, No, 40, Female, High, High, Positive

130,"Eating Disorders

(Anorexia,...",No,No,Yes,No,40,Female,High,High,Positive131,Fibromyalgia,No,

No, Yes, No, 40, Female, High, High, Positive

132, Gastroenteritis, Yes, Yes, Yes, No, 40, Male, High, High, Positive

133,Hemophilia,No,No,Yes,No,40,Female,Normal,Normal,Positive



134, Hyperthyroidism, No, No, Yes, No, 40, Male, High, High, Positive

135, Hypoglycemia, No, No, Yes, No, 40, Female, High, High, Positive 136, Lymphoma, No, Yes, No, N

o,40,Female,Normal,High,Positive137,Pneumonia,Yes,Yes,Yes,Yes,40,Female,Normal,High,Po

sitive138, Psoriasis, No, Yes, Yes, No, 40, Male, High, Normal, Positive

139, Psoriasis, Yes, No, No, No, 40, Male, High, Normal, Positive

140, Psoriasis, No, Yes, No, No, 40, Female, Normal, High, Positive

141, Tuberculosis, Yes, Yes, Yes, Yes, 40, Male, High, High, Positive

142, Tuberculosis, Yes, Yes, Yes, Yes, 40, Male, High, High, Positive

143,Anxiety

Disorders, No, No, No, No, 42, Male, Low, Normal, Negative 144, Commo

nCold, Yes, Yes, No, No, 42, Female, High, High, Negative

145, Depression, Yes, No, No, Yes, 42, Male, High, Normal, Negative 146, Influenza, No, Yes, No, No, 42

,Female,Normal,High,Negative

147, Kidney Cancer, Yes, No, No, No, 42, Female, Normal, Normal, Negative 148,

LiverCancer, Yes, No, Yes, Yes, 42, Male, Normal, Low, Negative

149,LiverDisease,Yes,No,No,Yes,42,Female,Normal,Normal,Negative150,L

ungCancer, Yes, No, Yes, Yes, 42, Male, Normal, Low, Negative

151, Migraine, Yes, Yes, Yes, No, 42, Male, High, High, Negative

152,Osteoarthritis,No,No,Yes,No,42,Male,Normal,Low,Negative153,Stroke,Yes,No,Yes,No,42

,Male,Normal,Low,Negative

154, Urinary Tract Infection, No, Yes, Yes, Yes, 42, Female, Normal, Low, Negative 155, Diabetes, Yes, Y

es,Yes,No,42,Male,High,Normal,Positive

156, Hypothyroidism, Yes, Yes, Yes, No, 42, Female, High, High, Positive

157, Hypothyroidism, Yes, Yes, Yes, No, 42, Female, High, High, Positive

158, Kidney Disease, Yes, No, Yes, No, 42, Female, High, Low, Positive

159, Pneumonia, No, Yes, Yes, Yes, 43, Female, High, Normal, Positive

160, Allergic Rhinitis, No, Yes, Yes, No, 45, Male, High, Normal, Negative

161, Autism Spectrum Disorder

(ASD),No,No,Yes,No,45,Male,Normal,Normal,Negative162,Crohn'sDisease,Yes,No,Yes,No,45

,Male,High,Normal,Negative

163, Hepatitis, Yes, No, Yes, No, 45, Female, High, High, Negative



164, Hepatitis, Yes, No, Yes, No, 45, Female, High, High, Negative

165, Hyperglycemia, No, No, Yes, No, 45, Male, Normal, Normal, Negative 166, Ki

dneyCancer,No,Yes,Yes,Yes,45,Male,Normal,Low,Negative

167, Kidney Disease, Yes, Yes, No, No, 45, Male, Normal, High, Negative 168, Melanoma, Yes, No, Yes,

No,45,Male,High,Normal,Negative

169, Migraine, No, No, No, No, 45, Female, Low, Normal, Negative

170,OvarianCancer,No,No,Yes,No,45,Male,Normal,Normal,Negative171,Pancreatitis,No,Yes,

Yes, Yes, 45, Male, Normal, Low, Negative

172,Rheumatoid

Arthritis, Yes, No, No, No, 45, Male, Normal, Normal, Negative 173, Stroke, No, No, Yes, No, 45, Male,

Normal, Normal, Negative

174, Turner Syndrome, No, No, Yes, No, 45, Male, High, High, Negative 175, Turne

rSyndrome,No,No,Yes,No,45,Male,High,High,Negative

176, Urinary Tract

Infection, No, No, No, No, 45, Female, Low, Normal, Negative 177, Zika Virus, No,

Yes, Yes, No, 45, Female, High, High, Negative

178,ZikaVirus,No,Yes,Yes,No,45,Female,High,High,Negative

179, Allergic Rhinitis, Yes, Yes, Yes, No, 45, Male, High, Normal, Positive

180, Anxiety

Disorders, Yes, Yes, Yes, No, 45, Male, High, Normal, Positive 181, Asthma

,Yes,Yes,No,Yes,45,Male,Normal,Normal,Positive

182, Asthma, Yes, Yes, No, Yes, 45, Male, Normal, Normal, Positive 183, Cataracts, No, No, Yes, No, 45,

Female, Normal, High, Positive

184,Crohn's

Disease, No, No, Yes, No, 45, Female, High, High, Positive 185, Crohn's

Disease, Yes, Yes, Yes, No, 45, Female, High, High, Positive 186, Depres

sion,No,No,Yes,No,45,Female,High,High,Positive

187, Diabetes, Yes, No, Yes, No, 45, Female, High, High, Positive 188, Diabetes, No, Yes, Yes, No, 45, Ma

le,Normal,High,Positive

189, Hypertension, Yes, No, Yes, No, 45, Male, Normal, High, Positive 190, Hypothyroidism, No, No,

Yes, No, 45, Female, High, High, Positive

191,Liver



Disease, Yes, Yes, Yes, No, 45, Female, Normal, High, Positive 192, Multiple Sclerosis, Yes, No, No, No, 45, Female, High, High, Positive

193, Multiple

Sclerosis, Yes, No, No, No, 45, Female, High, High, Positive 194, Osteoart

hritis, Yes, No, Yes, Yes, 45, Male, High, Normal, Positive

195,Osteoporosis,Yes,Yes,Yes,No,45,Female,Normal,High,Positive

196,Pneumocystis

Pneumonia(PCP), Yes, Yes, Yes, No, 45, Female, High, High, Positive 197, Pneumonia, Yes, Yes, Yes, Ye

s,45,Male,High,High,Positive

198, Scoliosis, No, No, No, No, 45, Female, High, High, Positive

199, Sickle Cell

Anemia, No, No, Yes, No, 45, Female, Normal, Normal, Positive 200, Tetanus, N

o,No,Yes,No,45,Male,Normal,High,Positive

201, Tetanus, No, No, Yes, No, 45, Male, Normal, High, Positive

202, Hypertension, No, No, No, No, 48, Female, Low, High, Negative

203, Hypothyroidism, No, No, Yes, No, 48, Male, Normal, High, Negative

204, Hypothyroidism, No, No, Yes, No, 48, Male, Normal, High, Negative

205,AllergicRhinitis,Yes,No,No,No,50,Male,High,High,Negative

206, Anemia, No, No, Yes, No, 50, Male, Normal, Normal, Negative

207, Anxiety

Disorders, No, No, Yes, No, 50, Male, Normal, Normal, Negative 208, Cholera

,Yes,No,Yes,Yes,50,Female,High,High,Negative

209, Cholera, Yes, No, Yes, Yes, 50, Female, High, High, Negative

210,Crohn's

Disease, Yes, Yes, Yes, No, 50, Male, Normal, High, Negative 211, Crohn's

Disease, No, No, Yes, No, 50, Male, Normal, High, Negative 212, Depress

ion,No,Yes,Yes,No,50,Female,Low,Low,Negative

213, Diabetes, No, Yes, No, No, 50, Male, Normal, High, Negative

214, Endometriosis, Yes, No, No, No, So, Male, High, Normal, Negative 215, Hypertension, No, Yes, N

o,No,50,Female,Normal,Low,Negative

216, Hypothyroidism, Yes, Yes, Yes, No, 50, Male, Normal, High, Negative 217, Kid

neyCancer,No,Yes,No,No,50,Male,Low,High,Negative

218, Kidney Disease, No, Yes, No, Yes, 50, Male, Normal, Normal, Negative 219, Pancreatitis, No, Yes,

No, No, 50, Male, Low, High, Negative



220,RheumatoidArthritis,No,Yes,No,No,50,Female,Low,Normal,Negative221,Sepsis,Yes,Yes,Yes,Yes,No,50,Male,Normal,Normal,Negative

222, Sleep Apnea, Yes, No, Yes, Yes, 50, Male, High, High, Negative

223, Urinary Tract

Infection, Yes, Yes, No, Yes, 50, Male, High, Normal, Negative 224, Asthma, Yes,

Yes, Yes, Yes, 50, Female, Normal, High, Positive

225, Bronchitis, Yes, Yes, Yes, Yes, 50, Male, High, High, Positive

226,Down

Syndrome, No, No, Yes, No, 50, Female, High, High, Positive 227, Ebola

Virus, Yes, Yes, Yes, Yes, 50, Male, Normal, Normal, Positive 228, Ebola Vi

rus, Yes, Yes, Yes, Yes, 50, Male, Normal, Normal, Positive 229, Eczema,

No, Yes, No, No, 50, Female, High, High, Positive

230, Gastroenteritis, Yes, Yes, Yes, Yes, 50, Female, High, Normal, Positive

231,Klinefelter

Syndrome, No, No, Yes, No, 50, Female, Normal, Normal, Positive 232, Liver Cance

r,No,Yes,Yes,Yes,50,Male,High,High,Positive

233,Lyme

Disease, Yes, No, No, No, 50, Male, Normal, High, Positive 234, Lyme

Disease, Yes, No, No, No, 50, Male, Normal, High, Positive

235, Pancreatic Cancer, No, No, Yes, No, 50, Female, High, High, Positive 236, Pneumothorax, No, No,

Yes, Yes, 50, Female, High, High, Positive

237,Stroke,No,Yes,Yes,Yes,50,Male,High,High,Positive

238,UlcerativeColitis,No,Yes,Yes,No,50,Female,Normal,High,Positive239,Hypertension,Yes,Y

es,No,No,52,Male,Normal,Low,Negative

240, Multiple

Sclerosis, No, Yes, Yes, No, 52, Male, Normal, Normal, Negative 241, Multiple

Sclerosis, No, Yes, Yes, No, 52, Male, Normal, Normal, Negative 242, Appendi

citis, Yes, No, Yes, No, 55, Male, Normal, Normal, Negative

243,Bronchitis,No,No,Yes,Yes,55,Male,High,High,Negative

244, Bronchitis, Yes, Yes, Yes, Yes, 55, Male, High, Normal, Negative

245, Common Cold, Yes, No, Yes, Yes, 55, Male, Normal, Low, Negative 246, Diabetes, No, Yes, No, No,

55,Female,Normal,High,Negative

247, Esophageal Cancer, No, No, Yes, No, 55, Male, Normal, Normal, Negative 248, HIV/AIDS, Yes, No

,No,No,55,Female,High,High,Negative



249,HIV/AIDS,Yes,No,No,No,55,Female,High,High,Negative 250,Hypertension,No,Yes,No,No,55,Female,Normal,Low,Negative



251,LiverDisease,No,Yes,Yes,No,55,Male,High,Low,Negative

252, Marfan

Syndrome, No, No, Yes, No, 55, Male, High, High, Negative 253, Migrain

e,No,Yes,Yes,Yes,55,Female,Normal,Low,Negative

254,Osteoporosis,No,No,Yes,No,55,Male,High,Normal,Negative

255, Parkinson's

Disease, No, No, Yes, No, 55, Female, Normal, Low, Negative 256, Parkinson's

Disease, No, No, Yes, No, 55, Female, Normal, Low, Negative 257, Anxiety Diso

rders, Yes, Yes, No, No, 55, Female, Normal, Low, Positive

258,Coronary Artery

Disease, No, No, Yes, No, 55, Female, Normal, Normal, Positive 259, Coronary Artery

Disease, No, No, Yes, No, 55, Female, Normal, Normal, Positive 260, Hemorrhoids, N

o,No,No,No,55,Female,High,High,Positive

261, Hypertension, Yes, No, Yes, No, 55, Male, High, Normal, Positive 262, Hypothyroidism, No, No,

Yes, No, 55, Female, High, Positive 263, Osteoarthritis, Yes, Yes, No, No, 55, Female, High, High,

Positive

264,Osteoporosis,Yes,No,Yes,Yes,55,Male,High,Low,Positive

265,Osteoporosis,No,Yes,Yes,No,55,Female,Normal,Normal,Positive

266,Osteoporosis,Yes,No,Yes,No,55,Female,Normal,Normal,Positive

267,Osteoporosis,Yes,No,Yes,No,55,Female,Normal,Normal,Positive

268,Polycystic Ovary Syndrome

(PCOS), Yes, Yes, No, No, 55, Female, Normal, Normal, Positive 269, Systemic Lupus Erythemato

sus...,No,Yes,Yes,No,55,Female,High,High,Positive

270,Typhoid

Fever, No, Yes, No, No, 55, Male, Normal, Low, Positive 271, Typhoid

Fever, No, Yes, No, No, 55, Male, Normal, Low, Positive 272, Influenz

a,Yes,Yes,Yes,Yes,56,Male,High,High,Positive

273, Pneumonia, Yes, Yes, No, Yes, 57, Male, Normal, High, Negative

274, Breast Cancer, No, No, Yes, No, 60, Male, High, High, Negative

275,Coronary Artery

Disease, Yes, Yes, No, No, 60, Male, High, High, Negative 276, Coronary Artery

Disease, Yes, Yes, No, No, 60, Male, High, High, Negative 277, Hyperthyroidis



m,No,No,Yes,No,60,Male,Normal,Normal,Negative

278, Measles, Yes, Yes, No, No, 60, Female, High, Normal, Negative 279, Measles, Yes, Yes, No, No, 60,

Female, High, Normal, Negative

No, Yes, No, 60, Male, Normal, Normal, Negative

282,Osteoporosis,Yes,No,No,60,Male,High,High,Negative283,Osteoporosis,No,Yes,No,No,

60, Male, High, High, Negative 284, Osteoporosis, No, Yes, No, No, 60, Male, High, High, Negative 285,

Polio, Yes, Yes, Yes, No, 60, Male, Normal, Normal, Negative 286, Asthma, Yes, Yes, Yes, Yes, 60, Fema

le, High, High, Positive

287, Chronic Kidney

Disease, No, No, Yes, No, 60, Female, Normal, High, Positive 288, Hemophilia, No

,No,Yes,No,60,Female,Normal,Normal,Positive

289, Hepatitis

B,No,Yes,Yes,No,60,Male,Normal,Low,Positive290,Hepatitis

B,No,Yes,Yes,No,60,Male,Normal,Low,Positive

291, Hypertension, No, No, Yes, No, 60, Female, High, Normal, Positive 292, Hypertension, Yes, No, Y

es,No,60,Male,High,Normal,Positive

293, Hypertension, No, No, No, No, 60, Female, High, High, Positive

294, Kidney Cancer, Yes, Yes, Yes, No, 60, Female, High, Normal, Positive 295, Kidn

ey

Disease, Yes, Yes, Yes, 60, Female, High, High, Positive 296, Osteoporosis, Ye

s,No,Yes,No,60,Male,High,Normal,Positive

297, Pancreatitis, Yes, Yes, Yes, No, 60, Female, High, Normal, Positive

298, Parkinson's Disease, Yes, Yes, No, No, 60, Male, High, Normal, Positive 299, P

arkinson'sDisease,Yes,Yes,No,No,60,Male,High,Normal,Positive

300, Prader-Willi

Syndrome, No, No, Yes, No, 60, Female, Normal, Normal, Positive 301, Rheumatoid

Arthritis, No, No, Yes, No, 60, Female, High, High, Positive

302, Thyroid Cancer, No, No, Yes, No, 60, Female, High, High, Positive 303, Tuberculosis, Yes, Yes, Yes,

No,60,Female,High,High,Positive

304,BladderCancer,No,No,Yes,No,65,Male,Normal,Normal,Negative305,Diabetes,No,No,Yes,

No,65,Male,Normal,High,Negative

306,Otitis Media (Ear

Infection), Yes, Yes, Yes, No, 65, Male, Normal, Normal, Negative 307, Stroke, Yes, No, Yes, No, 65, Fe

male, High, Low, Negative



308, Stroke, Yes, No, Yes, No, 65, Female, High, Low, Negative

309, Tourette Syndrome, No, No, Yes, No, 65, Male, High, High, Negative

310, Urinary TractInfection (UTI), Yes, No, Yes, No, 65, Male, High, Normal, Negative 311, Alzheimer's

Disease, No, Yes, No, No, 65, Male, Normal, High, Positive

312, Alzheimer's

Disease, No, Yes, No, No, 65, Male, Normal, High, Positive 313, Alzheimer's

Disease, No, No, Yes, No, 65, Female, High, High, Positive 314, Bronchitis, Y

es,No,Yes,Yes,65,Male,High,High,Positive

315,ChronicObstructivePulmonaryDisease (COPD),Yes,No,Yes,Yes,65,Female,High,High,Positive

316,ChronicObstructivePulmonaryDisease (COPD),Yes,No,Yes,Yes,65,Female,High,High,Positive

317, Dementia, No, No, Yes, No, 65, Female, High, High, Positive

318, Diabetes, Yes, Yes, Yes, No, 65, Female, Normal, High, Positive

319, Diverticulitis, No, No, Yes, No, 65, Female, High, High, Positive

320,Liver

Cancer, Yes, Yes, Yes, No, 65, Female, High, High, Positive 321, Lung

Cancer, Yes, Yes, Yes, No, 65, Female, High, High, Positive

322,Lung

Cancer, Yes, No, Yes, No, 65, Female, Normal, High, Positive 323, Mumps, No, No, Yes, No, 65, Male, Normal, High, Positive

324, Mumps, No, No, Yes, No, 65, Male, Normal, High, Positive

325,Osteoporosis,No,Yes,Yes,No,65,Female,High,High,Positive326,Stroke,Yes,Yes,Yes,No,65,

Female, High, High, Positive

327, Alzheimer's

Disease, Yes, No, Yes, No, 70, Female, High, Normal, Negative 328, Alzheimer's

Disease, Yes, No, Yes, No, 70, Female, High, Normal, Negative 329, Cholecystiti

s,No,No,Yes,No,70,Male,Normal,Normal,Negative

330,ChronicObstructivePulmonaryDisease (COPD),No,Yes,Yes,Yes,70,Male,Normal,High,Negative

331,ChronicObstructivePulmonaryDisease (COPD),No,Yes,Yes,Yes,70,Male,Normal,High,Negative

332,Osteoporosis,Yes,No,No,No,70,Male,Normal,Normal,Negative

333, Parkinson's



Disease, No, No, Yes, No, 70, Male, Normal, Normal, Negative 334, Prostate Cancer, Yes, Yes, No, No, 70, Male, High, Normal, Negative 335, Schizophrenia, No, Yes, Yes, No, 70, Male, Normal, Normal, Negative

336, Gout, Yes, No, Yes, No, 70, Female, Normal, High, Positive

337, Migraine, No, No, Yes, No, 70, Female, Normal, Normal, Positive 338, Stroke, No, Yes, No, No, 70,

Male, Normal, High, Positive

339,Stroke,No,Yes,No,No,70,Male,Normal,High,Positive

340,Testicular

Cancer, No, No, Yes, No, 70, Female, High, High, Positive 341, Tonsillitis,

Yes, Yes, Yes, No, 70, Female, High, High, Positive

342, Williams Syndrome, No, No, Yes, No, 70, Female, Normal, Normal, Positive 343, Stroke, Yes, No,

Yes, No, 80, Female, High, High, Positive

344, Stroke, Yes, No, Yes, No, 80, Female, High, High, Positive

345,Stroke,Yes,No,Yes,No,85,Male,High,High,Positive

346,Stroke,Yes,No,Yes,No,85,Male,High,High,Positive

347, Stroke, Yes, No, Yes, No, 90, Female, High, High, Positive

348, Stroke, Yes, No, Yes, No, 90, Female, High, High, Positive

```
#Numberofpatientsdiagnosedwithasthma
asthma_patients = df[df['Disease'] ==
'Asthma'].shape[0]print(asthma_patients)
```

Output:



```
#Most common disease among female
patientsmost_common_disease_female =
df[df['Gender']
=='Female']['Disease'].value counts().idxmax()
```

Output:

Asthma

```
#Patients with high blood pressure and normal cholesterol levelshigh_bp_normal_cholesterol=df[(df['BloodPressure']=='High')] print(high bp normal cholesterol)
```

Output:

	DiseaseFo	DiseaseFeverCoughFatigueDifficultyBreathing						
Age ' 10	\							
10	Asthma	Yes	No	No	Yes			
28	200							
16	Pancreatitis	Yes	No	No	No			
29								
17	RheumatoidArthritis	No	Yes	Yes	Yes			
29								
18	Depression	Yes	Yes	Yes	Yes			
29								



21	Urinary	Tract	Infectio	n Ye	s Yes	Yes		No
29								
	20.					***		
344			Strok	:e Y∈	es No	Yes		No
80								
345			Strok	:e Y€	es No	Yes		No
85					1741111	11000000		
346			Strok	e Ye	es No	Yes		No
85	j							
347			Strok	e Ye	es No	Yes		No
90								
348			Strok	e Ye	s No	Yes		No
90		·					_	
	Gender 1	BloodPr	ressure	Choles	sterolLe	vel Outco	ome Variable	

	Gender	BloodPressure	CholesterolLevel	Outcome	Variable
10	Male	High	Normal		Positive
16	Female	High	Normal		Negative
17	Female	High	High		Negative
18	Male	High	Normal		Positive
21	Male	High	High		Positive
* * * *					
344	Female	High	High		Positive
345	Male	High	High		Positive
346	Male	High	High		Positive
347	Female	High	High		Positive
348	Female	High	High		Positive

[167rowsx10columns]

```
#Numberofpatientstestedpositiveforinfluenza
influenza_patients = df[df['Disease'] ==
'Influenza'].shape[0]print(influenza_patients)
```

Output:

8

```
#Gender distribution among patients with rheumatoid arthritisrheumatoid_arthritis_gender_distribution = df[df['Disease'] == 'RheumatoidArthritis']['Gender'].value_counts()
```

Output:

```
Female 4
Male 2
Name:Gender,dtype:int64
```

```
#Average age of patients with a positive outcome
variableavg_age_positive_outcome = df[df['Outcome
Variable'] == 'Positive']['Age'].mean()
print(avg age positive outcome)
```

Output:

46.97849462365591

#Patientswithbotheczemaanddepression



```
eczema_depression_patients=df[(df['Disease']=='Eczema') &
  (df['Outcome Variable'] ==
  'Depression')].shape[0]print(eczema_depression_pat
```

Output:

0

