Report (Diabetes)

Diabetes: is a disease that occurs when your blood glucose, also c alled blood sugar, is too high. Blood glucose is your main source of energy and comes from the food you eat. Insulin, a hormone made by the pancreas, helps glucose from food get into your cells to be used for energy.

1 - Data:

	ID	No_Pation	Gender	AGE	Urea	Cr	HbA1c	Chol	TG	HDL	LDL	VLDL	ВМІ	CLASS
0	502	17975	F	50	4.7	46	4.9	4.2	0.9	2.4	1.4	0.5	24.0	N
1	735	34221	M	26	4.5	62	4.9	3.7	1.4	1.1	2.1	0.6	23.0	N
2	420	47975	F	50	4.7	46	4.9	4.2	0.9	2.4	1.4	0.5	24.0	N
3	680	87656	F	50	4.7	46	4.9	4.2	0.9	2.4	1.4	0.5	24.0	N
4	504	34223	M	33	7.1	46	4.9	4.9	1.0	8.0	2.0	0.4	21.0	N
95	171	45434	M	40	22.0	159	5.4	3.1	1.6	1.1	1.3	0.7	24.0	N
96	180	454316	F	54	6.3	106	5.6	4.3	2.0	1.3	2.2	0.9	20.0	N
97	181	454316	F	50	3.3	70	4.9	3.7	0.9	1.2	2.7	0.6	24.0	N
98	182	454316	M	60	7.5	70	0.9	3.4	5.3	1.1	3.6	8.0	24.0	N
99	186	454316	M	77	5.0	106	5.4	0.0	2.8	8.0	1.8	0.7	19.0	N

These are the data I was analyzed it.

• Gender:

M: male.

F: Female.

• Class:

N: NO (Not have diabetes)

P: prediabetes

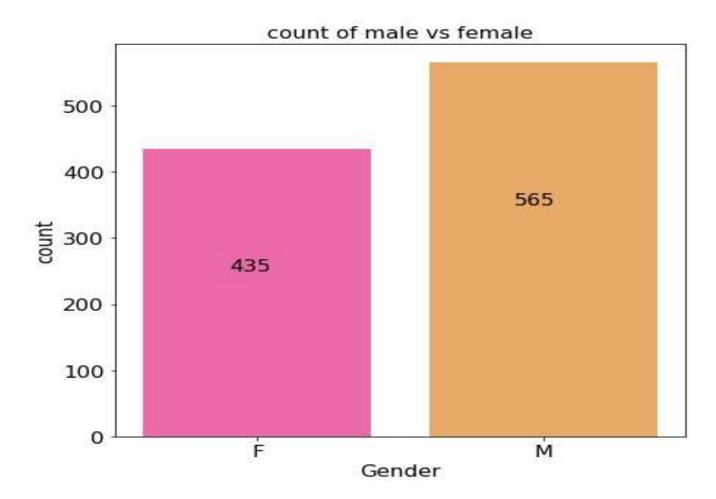
Y: Yes (have diabetes)

<u>business plan:</u>

Q1: what is the percentage of male and female in this data? and the percentage of disease?

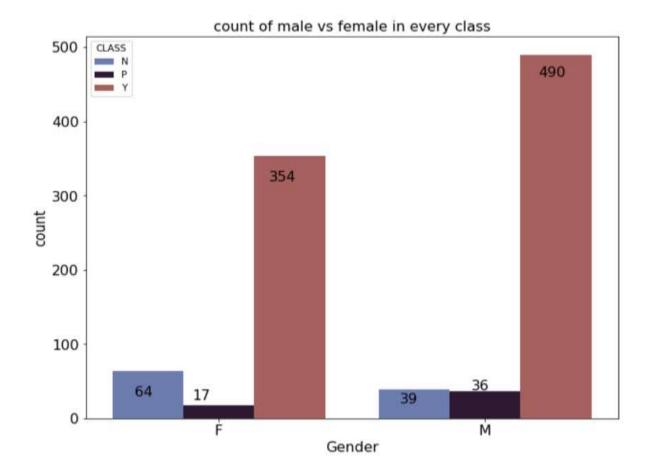
Q2: What is the range of age the disease is common?

Q3 : what is the features are related with the class ? and how we can classification the disease?



The count of males =565, and females= 435, the total is 1000.

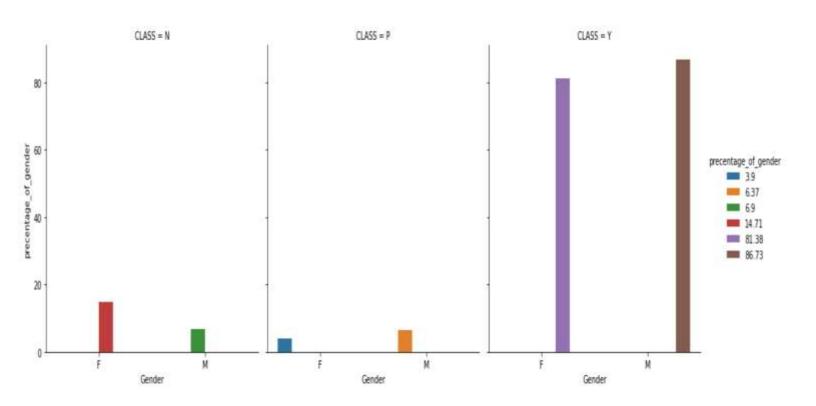
It is mean the count of males is larger than females.



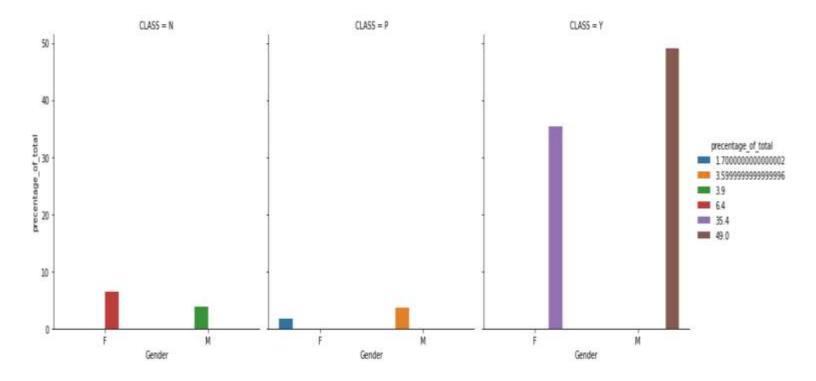
The males who have diabetes are **490**, prediabetes are **36** and **39** don't have diabetes from **565**

The females who have diabetes are **354**, prediabetes is **16**, and **64** do not have diabetes from **435**.

proportion of male and female of gender



proportion of male and female of total



The proportion of males who have diabetes is **86.37** % from males, and **49**% from total , and prediabetes is **6.37**% from males & **3.6**% from total.

while the proportion of females who have diabetes is **81.38**% from females and **35.4**% from total and prediabetes is **3.9**% from females & **1.7**% from total.