

In [1]: #Exp No : 1

In [2]: #Aim : To perform Data Acquisition of given Dataset using Pandas.

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#Sec : A
#Subject : Data Science and Statistics
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In [4]: #importing the basic library
import pandas as pd

In [5]: import os

In [6]: os.getcwd()

Out[6]: 'C:\\Users\\HP'

In [7]: os.chdir('C:\\Users\\HP\\Desktop')

In [8]: data=pd.read_csv("diabetes.csv")

In [9]: data.head()

Out[9]:

	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedigreeFunction	Age	Outcome
0	6	148	72	35	0	33.6	0.627	50	1
1	1	85	66	29	0	26.6	0.351	31	0
2	8	183	64	0	0	23.3	0.672	32	1
3	1	89	66	23	94	28.1	0.167	21	0
4	0	137	40	35	168	43.1	2.288	33	1

In [10]: data.tail()

Out[10]:

	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedigreeFunction	Age	Outcome
763	10	101	76	48	180	32.9	0.171	63	0
764	2	122	70	27	0	36.8	0.340	27	0
765	5	121	72	23	112	26.2	0.245	30	0
766	1	126	60	0	0	30.1	0.349	47	1
767	1	93	70	31	0	30.4	0.315	23	0

In [11]: data.head(12)

Out[11]:

	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedigreeFunction	Age	Outcome
0	6	148	72	35	0	33.6	0.627	50	1
1	1	85	66	29	0	26.6	0.351	31	0
2	8	183	64	0	0	23.3	0.672	32	1
3	1	89	66	23	94	28.1	0.167	21	0
4	0	137	40	35	168	43.1	2.288	33	1
5	5	116	74	0	0	25.6	0.201	30	0
6	3	78	50	32	88	31.0	0.248	26	1
7	10	115	0	0	0	35.3	0.134	29	0
8	2	197	70	45	543	30.5	0.158	53	1
9	8	125	96	0	0	0.0	0.232	54	1
10	4	110	92	0	0	37.6	0.191	30	0
11	10	168	74	0	0	38.0	0.537	34	1

In [12]: data.tail(50)

Out[12]:

	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedigreeFunction	Age	Outcome
718	1	108	60	46	178	35.5	0.415	24	0
719	5	97	76	27	0	35.6	0.378	52	1
720	4	83	86	19	0	29.3	0.317	34	0
721	1	114	66	36	200	38.1	0.289	21	0
722	1	149	68	29	127	29.3	0.349	42	1
723	5	117	86	30	105	39.1	0.251	42	0
724	1	111	94	0	0	32.8	0.265	45	0
725	4	112	78	40	0	39.4	0.236	38	0
726	1	116	78	29	180	36.1	0.496	25	0
727	0	141	84	26	0	32.4	0.433	22	0
728	2	175	88	0	0	22.9	0.326	22	0
729	2	92	52	0	0	30.1	0.141	22	0
730	3	130	78	23	79	28.4	0.323	34	1
731	8	120	86	0	0	28.4	0.259	22	1
732	2	174	88	37	120	44.5	0.646	24	1
733	2	106	56	27	165	29.0	0.426	22	0
734	2	105	75	0	0	23.3	0.560	53	0
735	4	95	60	32	0	35.4	0.284	28	0
736	0	126	86	27	120	27.4	0.515	21	0
737	8	65	72	23	0	32.0	0.600	42	0
738	2	99	60	17	160	36.6	0.453	21	0
739	1	102	74	0	0	39.5	0.293	42	1
740	11	120	80	37	150	42.3	0.785	48	1
741	3	102	44	20	94	30.8	0.400	26	0
742	1	109	58	18	116	28.5	0.219	22	0
743	9	140	94	0	0	32.7	0.734	45	1
744	13	153	88	37	140	40.6	1.174	39	0
745	12	100	84	33	105	30.0	0.488	46	0
746	1	147	94	41	0	49.3	0.358	27	1
747	1	81	74	41	57	46.3	1.096	32	0
748	3	187	70	22	200	36.4	0.408	36	1
749	6	162	62	0	0	24.3	0.178	50	1
750	4	136	70	0	0	31.2	1.182	22	1
751	1	121	78	39	74	39.0	0.261	28	0
752	3	108	62	24	0	26.0	0.223	25	0
753	0	181	88	44	510	43.3	0.222	26	1
754	8	154	78	32	0	32.4	0.443	45	1
755	1	128	88	39	110	36.5	1.057	37	1
756	7	137	90	41	0	32.0	0.391	39	0
757	0	123	72	0	0	36.3	0.258	52	1
758	1	106	76	0	0	37.5	0.197	26	0
759	6	190	92	0	0	35.5	0.278	66	1
760	2	88	58	26	16	28.4	0.766	22	0
761	9	170	74	31	0	44.0	0.403	43	1
762	9	89	62	0	0	22.5	0.142	33	0
763	10	101	76	48	180	32.9	0.171	63	0
764	2	122	70	27	0	36.8	0.340	27	0
765	5	121	72	23	112	26.2	0.245	30	0
766	1	126	60	0	0	30.1	0.349	47	1
767	1	93	70	31	0	30.4	0.315	23	0