

```
In [2]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
```

```
In [3]: pd.__version__
```

Out[3]: '1.0.1'

```
In [4]: df = pd.read_csv('C:/Users/Baihaki/Downloads/datamining-master/datamining-master/Uas/dataset_soal No. 4.txt',
                        delimiter=',')
```

```
In [5]: df
```

Out[5]:

	Usia	Kelahiran_ke-	Waktu_Kelahiran	Tekanan_darah	Kelainan_jantung	Caesarian
0	22	1	0	2	0	0
1	26	2	0	1	0	1
2	26	2	1	1	0	0
3	28	1	0	2	0	0
4	22	2	0	1	0	1
...
75	27	2	1	1	0	0
76	33	4	0	1	0	1
77	29	2	1	2	0	1
78	25	1	2	0	0	1
79	24	2	2	1	0	0

80 rows × 6 columns

```
In [6]: import math
dis = []
for i in range(80):
    dis.append(math.sqrt((float(df.iloc[i]['Usia'])-30)**2+
                          (float(df.iloc[i]['Kelahiran_ke-'])- 1)**2+
                          (float(df.iloc[i]['Waktu_Kelahiran'])-0)**2+
                          (float(df.iloc[i]['Tekanan_darah'])-1)**2))
```

```
In [7]: df['dis'] = dis
df
```

Out[7]:

	Usia	Kelahiran_ke-	Waktu_Kelahiran	Tekanan_darah	Kelainan_jantung	Caesarian	dis
0	22	1	0	2	0	0	8.062258
1	26	2	0	1	0	1	4.123106
2	26	2	1	1	0	0	4.242641
3	28	1	0	2	0	0	2.236068
4	22	2	0	1	0	1	8.062258
...
75	27	2	1	1	0	0	3.316625
76	33	4	0	1	0	1	4.242641
77	29	2	1	2	0	1	2.000000
78	25	1	2	0	0	1	5.477226
79	24	2	2	1	0	0	6.403124

80 rows × 7 columns

```
In [8]: df.sort_values('dis')
```

Out[8]:

	Usia	Kelahiran_ke-	Waktu_Kelahiran	Tekanan_darah	Kelainan_jantung	Caesarian	dis
27	30	1	0	1	0	0	0.000000
38	31	1	0	1	0	0	1.000000
67	29	2	0	1	1	0	1.414214
54	29	2	0	1	1	1	1.414214
59	30	2	1	2	1	1	1.732051
...
41	19	1	0	1	0	1	11.000000
61	19	1	0	1	0	1	11.000000
25	18	1	0	1	0	0	12.000000
26	18	1	1	2	1	1	12.083046
70	17	1	0	0	0	1	13.038405

80 rows × 7 columns

```
In [9]: y = df.sort_values('dis').head(5)
y
```

Out[9]:

	Usia	Kelahiran_ke-	Waktu_Kelahiran	Tekanan_darah	Kelainan_jantung	Caesarian	dis
27	30	1	0	1	0	0	0.000000
38	31	1	0	1	0	0	1.000000
67	29	2	0	1	1	0	1.414214
54	29	2	0	1	1	1	1.414214
59	30	2	1	2	1	1	1.732051

```
In [10]: z = y["Caesarian"]
z
```

Out[10]: 27 0
38 0
67 0
54 1
59 1
Name: Caesarian, dtype: int64

```
In [11]: np.mean(z)
```

Out[11]: 0.4

```
In [14]: df.to_excel("C:/Users/Baihaki/Downloads/datamining-master/datamining-master/Uas/JawabaNo4.xls")
```

```
In [ ]:
```