In [1]:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
```

In [2]:

```
df = pd.read_csv('D:Kuliah/No4.txt',delimiter=',')
```

In [3]:

```
df
```

Out[3]:

	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 [4]:

```
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 [5]:

```
df['dis'] = dis
df
```

Out[5]:

	Usia	Kelahiran_ke-	Waktu_Kelahiran	Tekanan_darah	Kelainan_jantung	Caesarian	
0	22	1	0	2	0	0	8.062
1	26	2	0	1	0	1	4.123
2	26	2	1	1	0	0	4.242
3	28	1	0	2	0	0	2.236
4	22	2	0	1	0	1	8.062
...	...	...	...	...	...	...	
75	27	2	1	1	0	0	3.316
76	33	4	0	1	0	1	4.242
77	29	2	1	2	0	1	2.000
78	25	1	2	0	0	1	5.477
79	24	2	2	1	0	0	6.403

80 rows × 7 columns

In [6]:

```
df.sort_values('dis')
```

Out[6]:

	Usia	Kelahiran_ke-	Waktu_Kelahiran	Tekanan_darah	Kelainan_jantung	Caesarian	
27	30	1	0	1	0	0	0.00
38	31	1	0	1	0	0	1.00
67	29	2	0	1	1	0	1.41
54	29	2	0	1	1	1	1.41
59	30	2	1	2	1	1	1.73
...	...	...	...	...	...	...	
41	19	1	0	1	0	1	11.00
61	19	1	0	1	0	1	11.00
25	18	1	0	1	0	0	12.00
26	18	1	1	2	1	1	12.08
70	17	1	0	0	0	1	13.03

80 rows × 7 columns

In [7]:

```
y = df.sort_values('dis').head(5)
y
```

Out[7]:

	Usia	Kelahiran_ke-	Waktu_Kelahiran	Tekanan_darah	Kelainan_jantung	Caesarian	
27	30	1	0	1	0	0	0.000
38	31	1	0	1	0	0	1.000
67	29	2	0	1	1	0	1.414
54	29	2	0	1	1	1	1.414
59	30	2	1	2	1	1	1.732

In [8]:

```
z = y["Caesarian"]
z
```

Out[8]:

```
27    0
38    0
67    0
54    1
59    1
Name: Caesarian, dtype: int64
```

In [9]:

```
np.mean(z)
```

Out[9]:

```
0.4
```

In [ ]:

```

```