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1. **Soal no2**

a. Apabila Cuaca buruk dengan nilai = 1, Weekday, dan Game = 0, maka berapa roti yang harus dibuat?

In [1]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
```

In [2]:
```
data=pd.read_excel('E:/KULIAH/SEMESTER 6/data mining/uas/data set2 ke 2/dataset_soal No. 2.xls')
```

In [3]:
```
data
```

Out[3]:

	Category	weatherv-1	holidayv-2	gamev-3	Qty
0	A	5	1	0	250
1	B	3	1	1	200
2	C	1	1	0	75
3	D	4	1	1	400
4	E	4	0	0	150
5	F	2	0	0	50

In [4]:
```
import math
dis = []
for i in range(6):
    dis.append(math.sqrt((float(data.iloc[i]['weatherv-1'])-1)**2+
                         (float(data.iloc[i]['holidayv-2'])- 1)**2+
                         (float(data.iloc[i]['gamev-3'])-0)**2))
```

In [5]:
```
data['dis'] = dis
data
```

Out[5]:

	Category	weatherv-1	holidayv-2	gamev-3	Qty	dis
0	A	5	1	0	250	4.000000
1	B	3	1	1	200	2.236068
2	C	1	1	0	75	0.000000
3	D	4	1	1	400	3.162278
4	E	4	0	0	150	3.162278
5	F	2	0	0	50	1.414214

In [6]:
```
data.to_excel('E:/KULIAH/SEMESTER 6/data mining/uas/project uas/soal_no2.xls')
```

In [7]:
```
data.to_excel('E:/KULIAH/SEMESTER 6/data mining/uas/project uas/soal_no2a.xls')
```


b. Apabila Cuaca baik dengan nilai 4, Weekend, dan Game =1, maka berapa roti yang harus dibuat?

In [1]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
```

In [2]:
```
data=pd.read_excel('E:/KULIAH/SEMESTER 6/data mining/uas/data set2 ke 2/dataset_soal No. 2.xls')
```

In [3]:
```
data
```

Out[3]:

	Category	weatherv-1	holidayv-2	gamev-3	Qty
0	A	5	1	0	250
1	B	3	1	1	200
2	C	1	1	0	75
3	D	4	1	1	400
4	E	4	0	0	150
5	F	2	0	0	50

In [4]:
```
import math
dis = []
for i in range(6):
    dis.append(math.sqrt((float(data.iloc[i]['weatherv-1'])-4)**2+
                         (float(data.iloc[i]['holidayv-2'])- 1)**2+
                         (float(data.iloc[i]['gamev-3'])-1)**2))
```

In [5]:
```
data['dis'] = dis
data
```

Out[5]:

	Category	weatherv-1	holidayv-2	gamev-3	Qty	dis
0	A	5	1	0	250	1.414214
1	B	3	1	1	200	1.000000
2	C	1	1	0	75	3.162278
3	D	4	1	1	400	0.000000
4	E	4	0	0	150	1.414214
5	F	2	0	0	50	2.449490

In [6]:
```
data.to_excel('E:/KULIAH/SEMESTER 6/data mining/uas/project uas/soal_no2b.xls')
```