```
In [103...
           import pandas as pd
           import numpy as np
           from matplotlib import pyplot as plt
           from scipy.stats import norm, shapiro, ttest_1samp
           import seaborn as sns
           from scipy import stats
           from numpy import *
In [104...
           # Attributes
           attribute = ["Daerah", "SumbuUtama", "SumbuKecil", "Keunikan", "AreaBulatan", "Diameter",
           data = pd.read csv("../data/Gandum.csv", names = attribute)
           data
Out[104...
               Daerah SumbuUtama SumbuKecil Keunikan AreaBulatan Diameter KadarAir Keliling
                                                                                                  Bu
                 5781
                         128.288875
                                      58.470846
                                                 0.890095
                                                                5954 85.793926 0.674090 316.756
                                                                                                 0.72
            2
                                                                4277 72.918093 0.596231 260.346 0.77
                 4176
                         109.348294
                                      49.837688 0.890098
            3
                 4555
                         114.427991
                                      52.151207 0.890105
                                                                4706 76.155145 0.776641 279.606 0.73
                                                                4236 72.611879 0.633180 260.478 0.76
            4
                 4141
                         108.701190
                                      49.457349 0.890499
            5
                 5273
                         122.747868
                                      55.757848 0.890876
                                                                5431 81.937733 0.669842 302.730 0.72
                 5083
                         120.083450
                                      54.821580
                                                0.889709
                                                                5179 80.447975 0.534827 286.377 0.77
          496
                         112.367050
                 4432
                                                0.889726
                                                                4550 75.119889 0.601194 270.823 0.75
          497
                                      51.294914
          498
                 5020
                         119.873742
                                      54.718545 0.889740
                                                                5104 79.947874 0.528421 285.799 0.77
          499
                 4035
                         107.311728
                                      48.930802 0.889996
                                                                4150 71.676506 0.584698 258.503 0.75
```

44.631551 0.892647

3491 65.591741 0.653578 237.593 0.75

500 rows × 11 columns

3379

99.014789

Soal 1

500

```
In [105...
          ans = \{\}
          for att in attribute:
              temp = \{\}
              temp["Mean"] = data[att].mean()
              temp["Median"] = data[att].median()
              temp["Modus"] = np.bincount(data[att]).argmax()
              temp["Std"] = data[att].std()
              temp["Var"] = data[att].var()
              temp["Minimum"] = data[att].min()
              temp["Maximum"] = data[att].max()
              temp["Range"] = data[att].max()-data[att].min()
              quartile = data[att].quantile([.25, .5, .75])
              temp["25%"] = quartile[.25]
              temp["50%"] = quartile[.5]
              temp["75%"] = quartile[.75]
              q75, q25 = np.percentile(data[att], [75 ,25])
              temp["IQR"] = q75 - q25
```

```
temp["Skew"] = data[att].skew()
temp["Kurtosis"] = data[att].kurtosis()
ans[att] = temp
ans = pd.DataFrame(ans)
ans
```

Out[105...

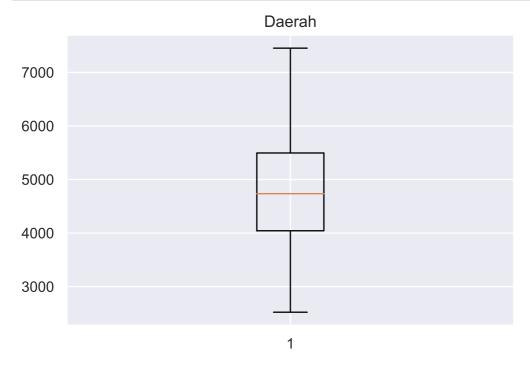
	Daerah	SumbuUtama	SumbuKecil	Keunikan	AreaBulatan	Diameter	KadarAir
Mean	4801.246000	116.045171	53.715246	0.878764	4.937048e+03	77.771158	0.648372
Median	4735.000000	115.405140	53.731199	0.890045	4.857000e+03	77.645277	0.626117
Modus	3992.000000	106.000000	55.000000	0.000000	3.802000e+03	74.000000	0.000000
Std	986.395491	18.282626	4.071075	0.036586	1.011696e+03	8.056867	0.094367
Var	972976.065615	334.254412	16.573650	0.001339	1.023529e+06	64.913111	0.008905
Minimum	2522.000000	74.133114	39.906517	0.719916	2.579000e+03	56.666658	0.409927
Maximum	7453.000000	227.928583	68.977700	0.914001	7.720000e+03	97.413830	0.878899
Range	4931.000000	153.795469	29.071182	0.194085	5.141000e+03	40.747172	0.468972
25%	4042.750000	104.116098	51.193576	0.863676	4.170250e+03	71.745308	0.572632
50%	4735.000000	115.405140	53.731199	0.890045	4.857000e+03	77.645277	0.626117
75%	5495.500000	129.046792	56.325158	0.907578	5.654250e+03	83.648598	0.726633
IQR	1452.750000	24.930694	5.131582	0.043902	1.484000e+03	11.903290	0.154001
Skew	0.238144	0.761529	-0.010828	-1.623472	2.575600e-01	0.002725	0.493661
Kurtosis	-0.434631	4.330534	0.475568	2.917256	-4.096849e- 01	-0.466455	-0.740326

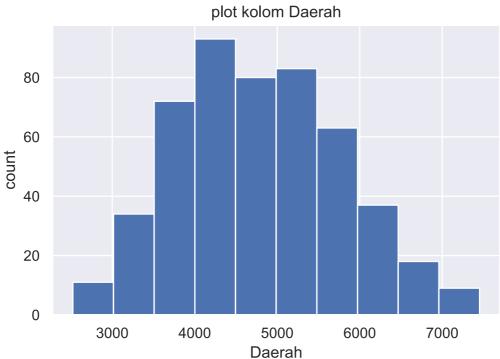
Soal 2

```
In [106...
          penjelasan = [
              "Dari boxplot dan histogram di kolom Daerah, dapat dilihat bahwa data tersebar k
              "Dari boxplot dan histogram di kolom SumbuUtama, dapat dilihat bahwa data terseb
              "Dari boxplot dan histogram di kolom SumbuKecil, dapat dilihat bahwa data terseb
              "Dari boxplot dan histogram di kolom Keunikan, dapat dilihat bahwa data tersebar
              "Dari boxplot dan histogram di kolom AreaBulatan, dapat dilihat bahwa data terse
              "Dari boxplot dan histogram di kolom Diameter, dapat dilihat bahwa data tersebar
              "Dari boxplot dan histogram di kolom KadarAir, dapat dilihat bahwa data tersebar
              "Dari boxplot dan histogram di kolom Keliling, dapat dilihat bahwa data tersebar
              "Dari boxplot dan histogram di kolom Bulatan, dapat dilihat bahwa data tersebar
              "Dari boxplot dan histogram di kolom Ransum, dapat dilihat bahwa data tersebar t
          1
          for att in attribute:
              counter = 0
              if (att == "Kelas"):
                  continue
              x_axis = data[att] # kolom yang dituju
              plt.boxplot(x_axis)
              plt.title(att)
              plt.show()
```

```
plt.hist(x_axis)
plt.title("plot kolom "+ att)
plt.xlabel(att)
plt.ylabel("count")
plt.show()

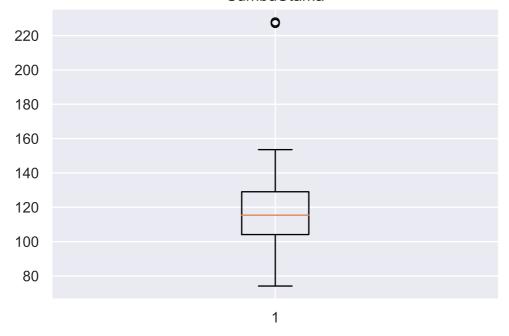
print(penjelasan[counter])
counter = counter + 1
print()
```

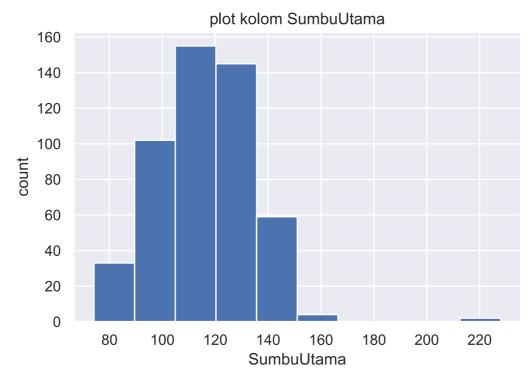




Data juga tidak memiliki nilai yang terlalu ekstrem berdasarkan pada boxplot yang ti dak memiliki outlier atau extreme.

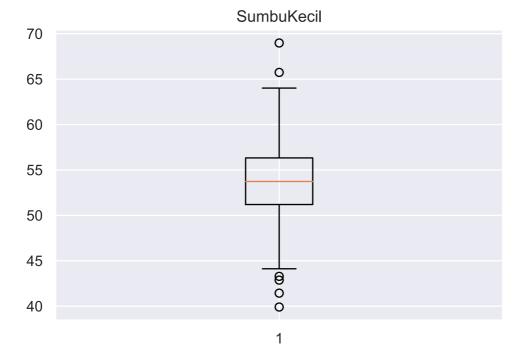
SumbuUtama

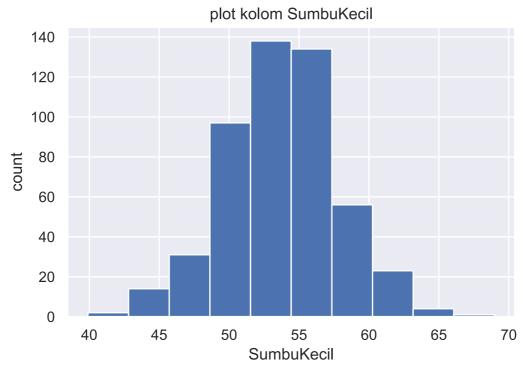




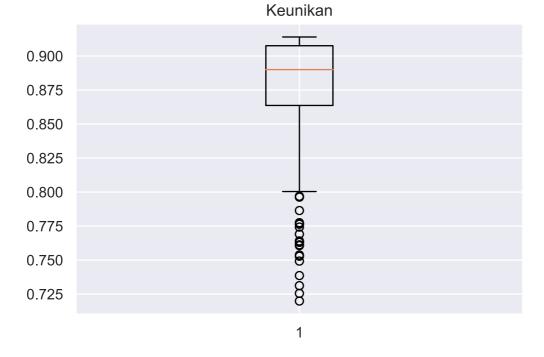
Dari boxplot dan histogram di kolom Daerah, dapat dilihat bahwa data tersebar kurang merata dengan histogram sedikit condong ke kiri.

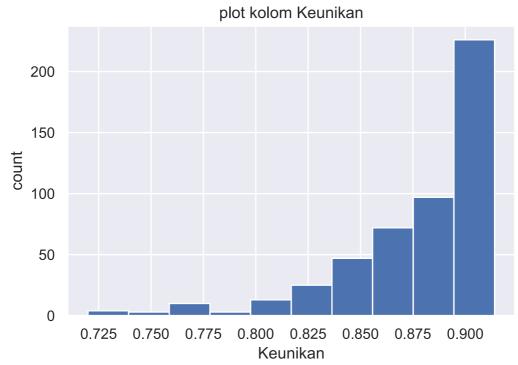
Data juga tidak memiliki nilai yang terlalu ekstrem berdasarkan pada boxplot yang ti dak memiliki outlier atau extreme.



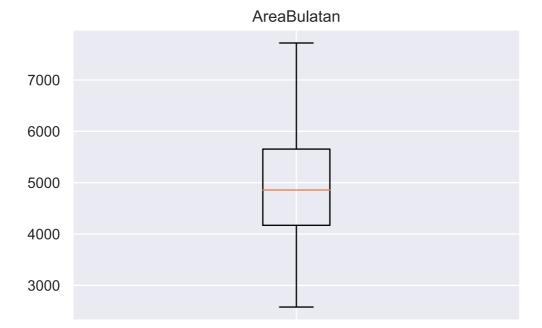


Data juga tidak memiliki nilai yang terlalu ekstrem berdasarkan pada boxplot yang ti dak memiliki outlier atau extreme.

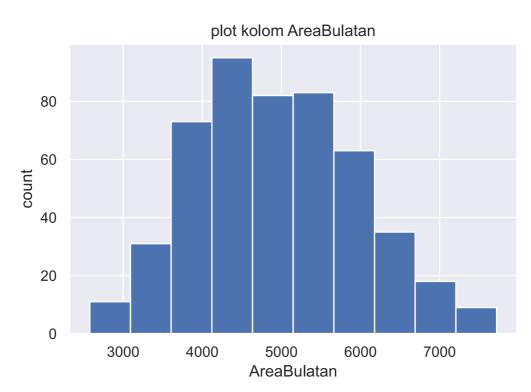




Data juga tidak memiliki nilai yang terlalu ekstrem berdasarkan pada boxplot yang ti dak memiliki outlier atau extreme.

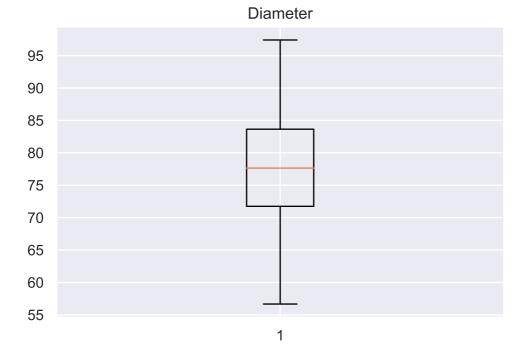


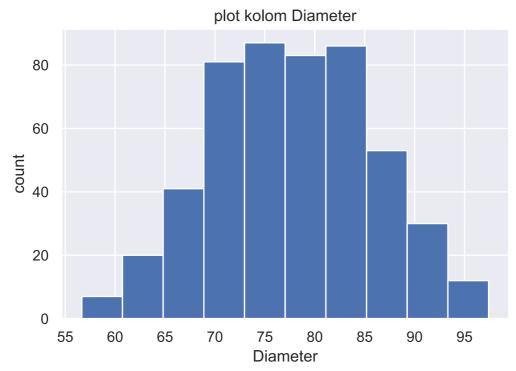
1



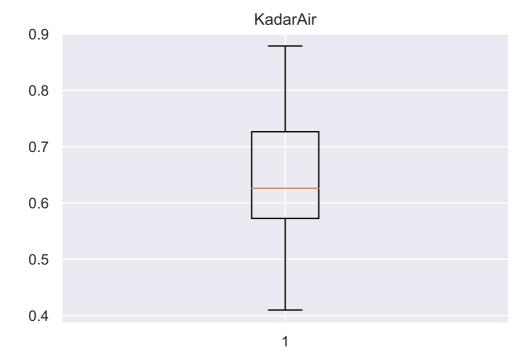
Dari boxplot dan histogram di kolom Daerah, dapat dilihat bahwa data tersebar kurang merata dengan histogram sedikit condong ke kiri.

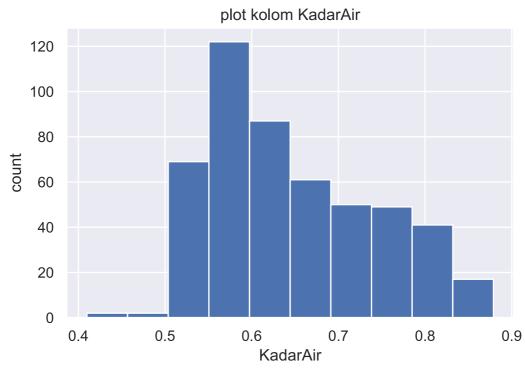
Data juga tidak memiliki nilai yang terlalu ekstrem berdasarkan pada boxplot yang ti dak memiliki outlier atau extreme.



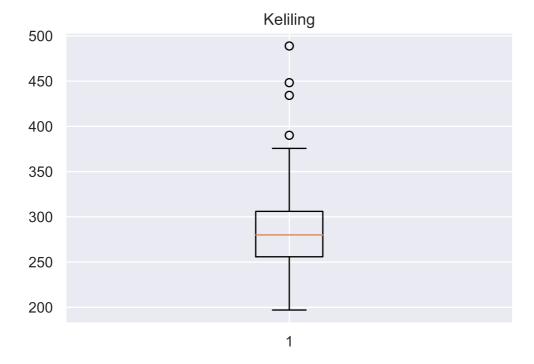


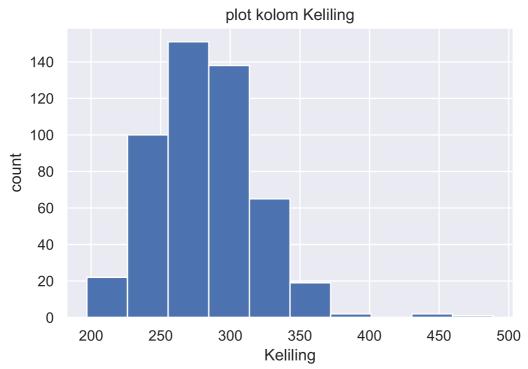
Data juga tidak memiliki nilai yang terlalu ekstrem berdasarkan pada boxplot yang ti dak memiliki outlier atau extreme.



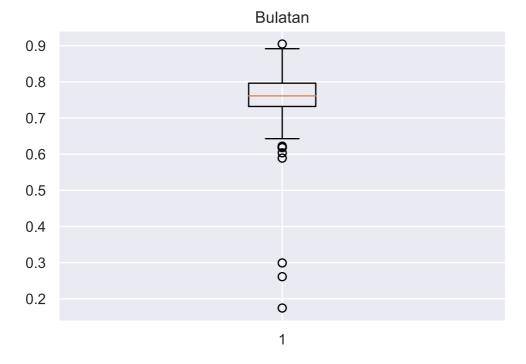


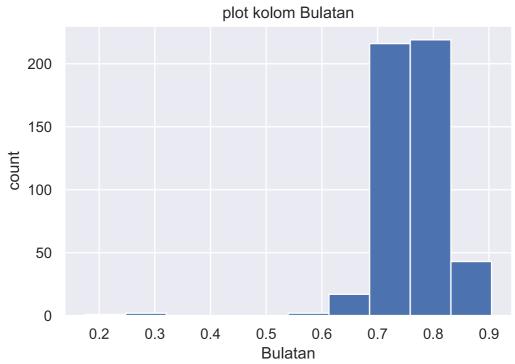
Data juga tidak memiliki nilai yang terlalu ekstrem berdasarkan pada boxplot yang ti dak memiliki outlier atau extreme.



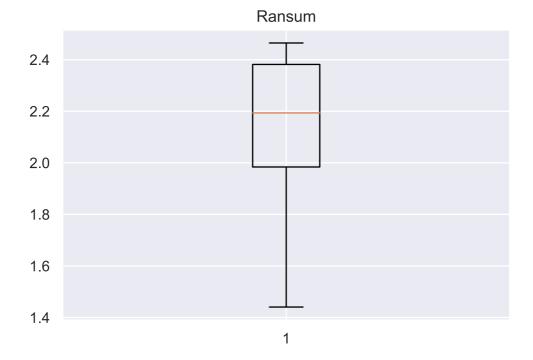


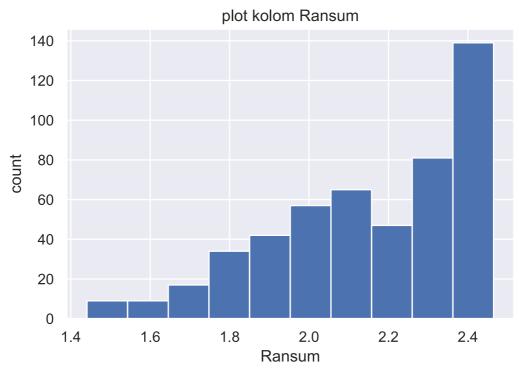
Data juga tidak memiliki nilai yang terlalu ekstrem berdasarkan pada boxplot yang ti dak memiliki outlier atau extreme.





Data juga tidak memiliki nilai yang terlalu ekstrem berdasarkan pada boxplot yang ti dak memiliki outlier atau extreme.





Data juga tidak memiliki nilai yang terlalu ekstrem berdasarkan pada boxplot yang ti dak memiliki outlier atau extreme.

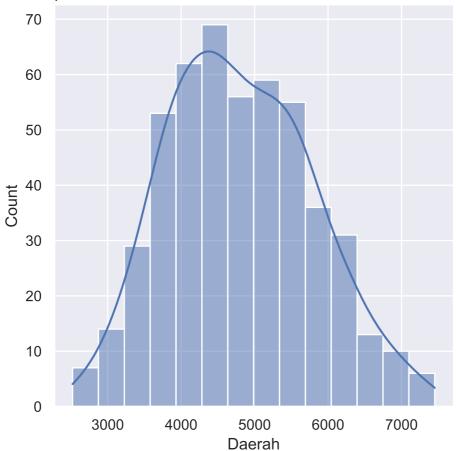
Nilai whisker atas dan bawah juga memiliki panjang yang mirip.

Soal 3

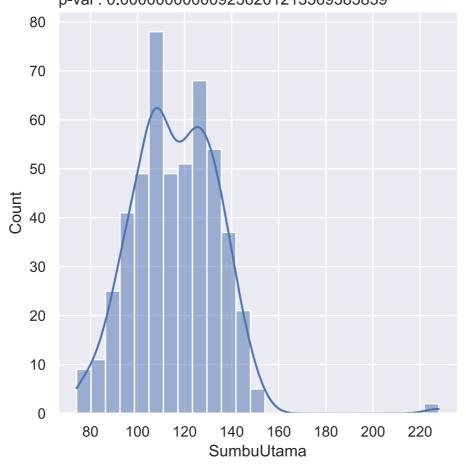
```
In [107...
    alpha = 0.05
    for att in attribute:
        ax = sns.displot(data[att], kde=True)
        stat, p = shapiro(data[att])
        if (p > alpha):
            plt.title(att + "\n" + "Terdistribusi Normal\n" + "p-val : " + str("%.30f" %
```

```
else:
   plt.title(att + "\n" + "Tidak Terdistribusi Normal\n" + "p-val : " + str("%.
```

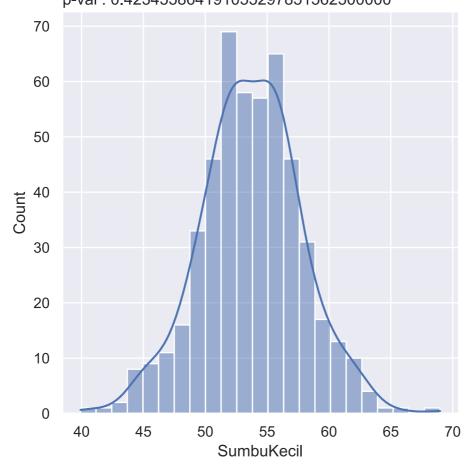
Daerah Tidak Terdistribusi Normal p-val: 0.003270698245614767074584960938



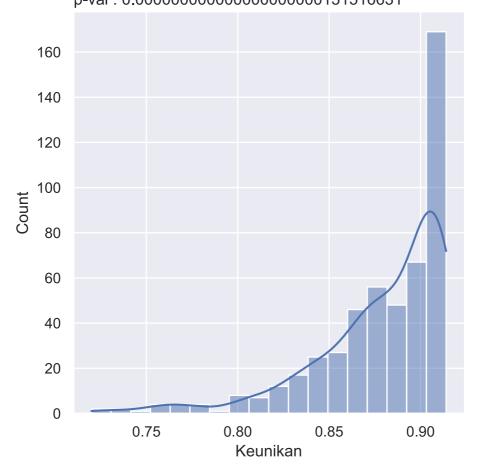
SumbuUtama Tidak Terdistribusi Normal p-val : 0.0000000000009236201213569383839



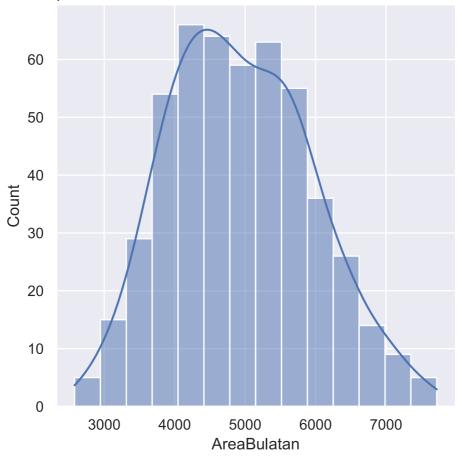
SumbuKecil Terdistribusi Normal p-val : 0.423455864191055297851562500000



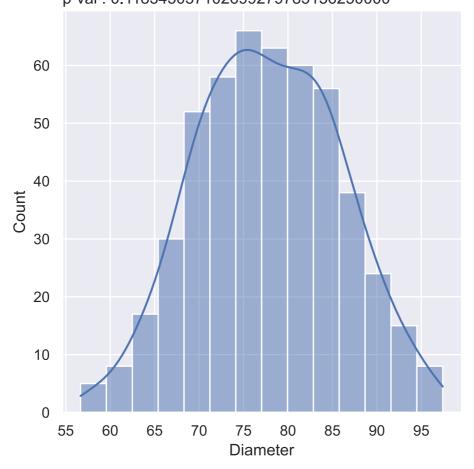
Keunikan Tidak Terdistribusi Normal p-val : 0.00000000000000000000131516631



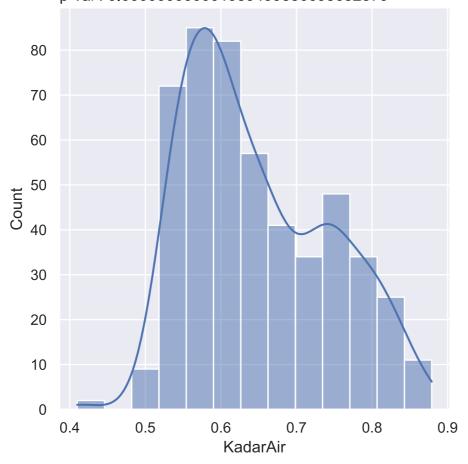
AreaBulatan Tidak Terdistribusi Normal p-val: 0.002484712284058332443237304688



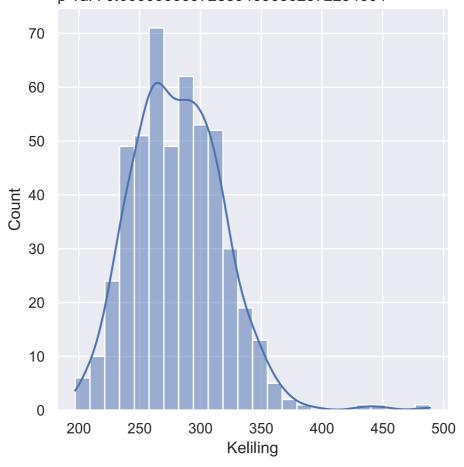
Diameter Terdistribusi Normal p-val: 0.118345037102699279785156250000

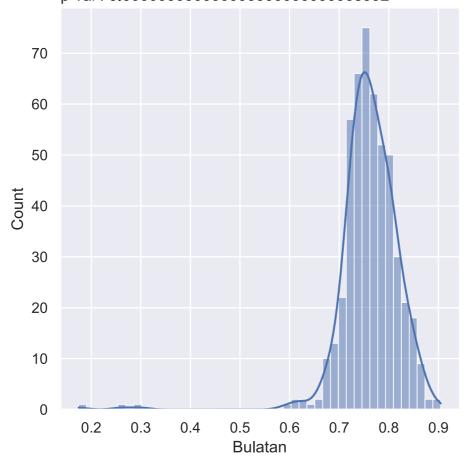


KadarAir Tidak Terdistribusi Normal p-val : 0.000000000001959499836695632879

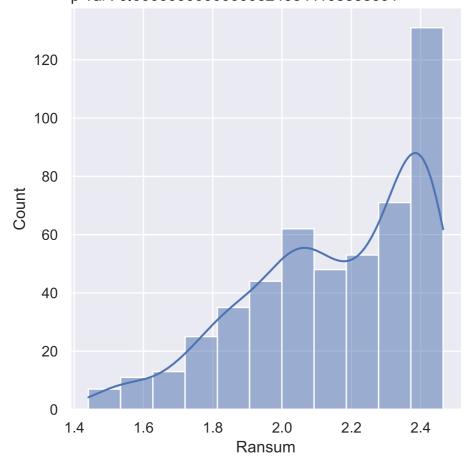


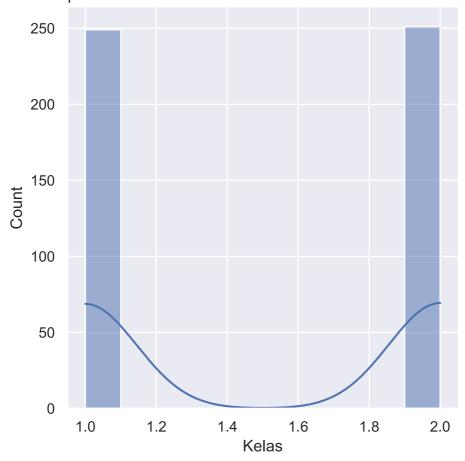
Keliling Tidak Terdistribusi Normal p-val : 0.000000009728394090302572294604





Ransum Tidak Terdistribusi Normal p-val : 0.0000000000000006245541108888591





```
def showTest(H0, H1, statistiktemp, formula, z_alpha, critical, z, pval):
    crit = "Critical Region : " + critical
    statistik = "Uji statistik " + statistiktemp

    print(H0)
    print(H1)
    print()
    print(statistik)
    print(formula)
    print(z_alpha)
    print(crit)
    print()
    if (z != ""):
        print("Z = ", z)
    print("P-values = ", pval)
```

Soal 4.a

```
showTest(
    "H0: u > 4700",
    "H1 : u <= 4700",
    "z test",
    "z = (avg - u) / (std/(n^{(1/2)))",
    "z_alpha = 1.645",
    "z > z_alpha",
    z, pval
)
if(z > z_alpha):
    print("Hipotesis H0 ditolak")
else:
    print("Hipotesis H0 diterima")
plt.figure()
plt.boxplot(data["Daerah"])
plt.title("Boxplot Daerah")
plt.show()
```

```
H0: u > 4700

H1: u <= 4700

Uji statistik z test

z = (avg - u) / (std/(n^(1/2)))

z_alpha = 1.645

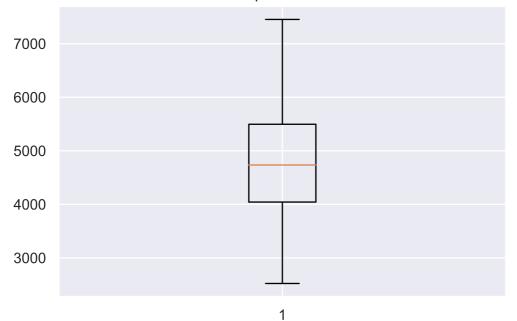
Critical Region : z > z_alpha

Z = 2.2951538242525173

P-values = 0.010862155196799872

Hipotesis H0 ditolak
```

Boxplot Daerah



Soal 4.b

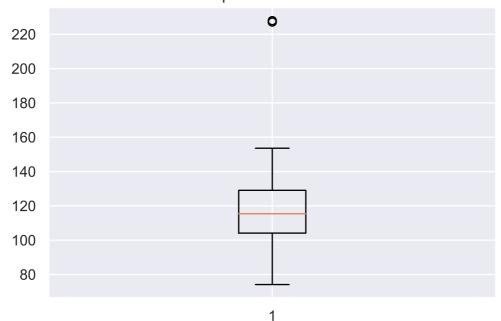
```
z = (avg - u) / (std/(n**(1/2)))
pval = norm.sf(abs(z))
showTest(
    "H0 : u != 116",
    "H1 : u = 116",
    "z test",
    "z = (avg - u) / (std/(n^{(1/2))})",
    "z_alpha/2 = 1.960",
    z > z_{alpha/2} or z < -z_{alpha/2}
    z, pval
if(z > z_alphaP2 or z < -z_alphaP2):</pre>
    print("Hipotesis H0 ditolak")
else:
    print("Hipotesis H0 diterima")
plt.figure()
plt.boxplot(data["SumbuUtama"])
plt.title("Boxplot SumbuUtama")
plt.show()
```

```
H0 : u != 116
H1 : u = 116

Uji statistik z test
z = (avg - u) / (std/(n^(1/2)))
z_alpha/2 = 1.960
Critical Region : z > z_alpha/2 or z < -z_alpha/2

Z = 0.05524712326730106
P-values = 0.477970793648876
Hipotesis H0 diterima
```

Boxplot SumbuUtama



Soal 4.c

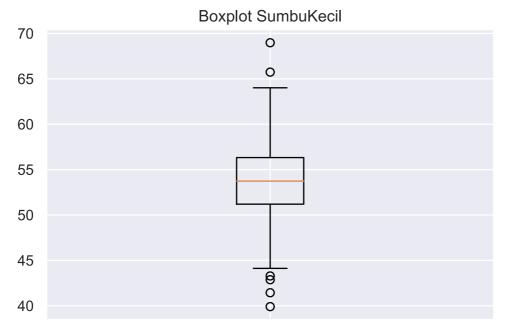
```
In [111... u = 50 t_alpha = 1.729
```

```
dataSK = data.head(20)
avg = dataSK["SumbuKecil"].mean()
std = dataSK["SumbuKecil"].std()
n = len(dataSK.index)
t = (avg - u) / (std/(n**(1/2)))
stat, pval = ttest_1samp(dataSK["SumbuKecil"], 50)
showTest(
   "H0 : u != 50",
    "H1 : u = 50",
    "t test",
    "t = (avg - u) / (std/(n**(1/2)))",
    "t_alpha = 1.645",
    "t > t_alpha",
    "", pval
print("t =", t)
if(t > t_alpha):
   print("Hipotesis H0 ditolak")
else:
    print("Hipotesis H0 diterima")
plt.figure()
plt.boxplot(data["SumbuKecil"])
plt.title("Boxplot SumbuKecil")
plt.show()
```

```
H0 : u != 50
H1 : u = 50

Uji statistik t test
t = (avg - u) / (std/(n**(1/2)))
t_alpha = 1.645
Critical Region : t > t_alpha

P-values = 3.3020185644244998e-06
t = 6.478168916968894
Hipotesis H0 ditolak
```



Soal 4.d

```
In [112...
          u = 0.15
          z_alphaP2 = 1.960
          dataD85 = data[data["Diameter"] > 85]
          x = len(dataD85.index)
          n = len(data.index)
          p_hat = x/n
          pval = norm.sf(abs(z))
          z = (p_hat - u) / ((u*(1-u)/n)**(1/2))
          showTest(
              "H0 : u = 0.15",
              "H1 : u != 0.15",
              "z test",
              "z = (p_hat - u) / ((u*(1-u)/n)^(1/2))",
              "z_alpha/2 = 1.960",
              z > z_{alpha/2} or z < -z_{alpha/2}
              z, pval
          if(z < -z_alphaP2 or z > z_alphaP2):
              print("Hipotesis H0 ditolak")
          else:
              print("Hipotesis H0 diterima")
          plt.figure()
          plt.boxplot(data["Diameter"])
          plt.title("Boxplot Diameter")
          plt.show()
         H0: u = 0.15
         H1 : u != 0.15
         Uji statistik z test
         z = (p_hat - u) / ((u*(1-u)/n)^(1/2))
```

```
H0: u = 0.15

H1: u != 0.15

Uji statistik z test

z = (p_hat - u) / ((u*(1-u)/n)^(1/2))

z_alpha/2 = 1.960

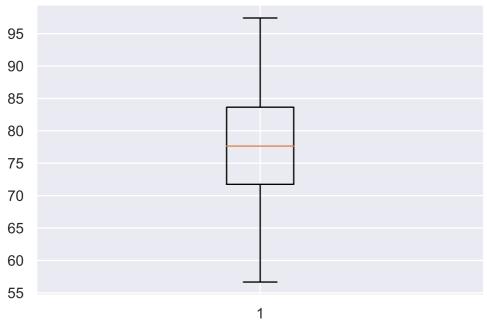
Critical Region: z > z_alpha/2 or z < -z_alpha/2

Z = 2.755386880774658

P-values = 0.477970793648876

Hipotesis H0 ditolak
```





Soal 4.e

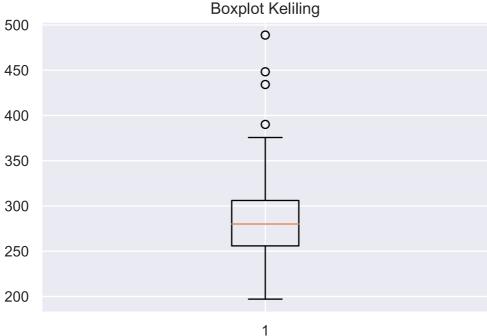
```
In [113...
          u = 0.05
          z_alpha = 1.645
          dataK100 = data[data["Keliling"] < 100]</pre>
          x = len(dataK100.index)
          n = len(data.index)
          p_hat = x/n
          z = (p_hat - u) / ((u*(1-u)/n)**(1/2))
          \# print("Z = " + str(z))
          pval = norm.sf(abs(z))
          showTest(
              "H0: u < 0.05",
              "H1 : u >= 0.05",
               "z test",
               "z = (p_hat - u) / ((u*(1-u)/n)^(1/2))",
              "z_alpha = 1.645",
               "z > z_alpha",
              z, pval
          if(z > z_alpha):
              print("Hipotesis H0 ditolak")
          else:
              print("Hipotesis H0 diterima")
          plt.figure()
          plt.boxplot(data["Keliling"])
          plt.title("Boxplot Keliling")
          plt.show()
          # print("P-values = " + str(pval))
```

H0 : u < 0.05 H1 : u >= 0.05

```
Uji statistik z test
z = (p_hat - u) / ((u*(1-u)/n)^(1/2))
z_alpha = 1.645
Critical Region : z > z_alpha

Z = -5.129891760425771
P-values = 1.4495441414387716e-07
Hipotesis H0 diterima

Boxplot K
```



Soal 5.a

```
In [114...
          col = "AreaBulatan"
          data1 = data[col][0:250]
          data2 = data[col][250:500]
          z_alphaP2 = 1.960
          n1 = len(data1)
          n2 = len(data2)
          sd1 = data1.std()
          sd2 = data2.std()
          X1 = data1.mean()
          X2 = data2.mean()
          mudiff = 0
          z = (X1 - X2) / (sqrt( ((sd1**2)/n1) + ((sd2**2)/n2) ))
          pval = 2*(norm.sf(abs(z)))
          showTest(
              "H0 : u = u0",
               "H1 : u != u0",
              "z test",
              "z = (X1 - X2) / (sqrt( ((sd1^2)/n1) + ((sd2^2)/n2) ))",
               "z_alpha/2 = 1.960",
              z > z_{alpha/2} or z < -z_{alpha/2},
              z, pval
          )
```

```
if(z < -z_alphaP2 or z > z_alphaP2):
    print("Hipotesis H0 ditolak")
else:
    print("Hipotesis H0 diterima")

plt.figure()
plt.boxplot(data[col])
plt.title("Boxplot " + col)
plt.show()
```

```
H0 : u = u0

H1 : u != u0

Uji statistik z test

z = (X1 - X2) / (sqrt( ((sd1^2)/n1) + ((sd2^2)/n2) ))

z_alpha/2 = 1.960

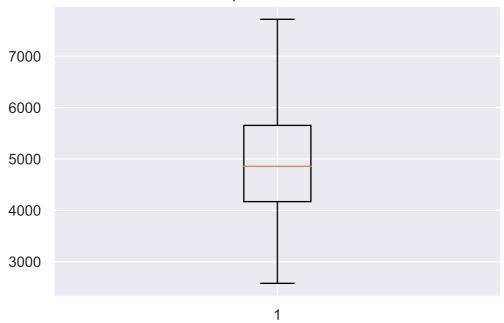
Critical Region : z > z_alpha/2 or z < -z_alpha/2

Z = 17.013036648485464

P-values = 6.574024595618948e-65

Hipotesis H0 ditolak
```

Boxplot AreaBulatan



Soal 5.b

```
In [115...
# H0 : |u1 = u2 + 0.2|
# H1 : |u1 > u2 + 0.2|
col = "KadarAir"
dataKA1 = data[col][0:250]
dataKA2 = data[col][250:500]

z_alphaP2 = 1.282

nKA1 = len(dataKA1)
nKA2 = len(dataKA2)

sdKA1 = dataKA1.std()
sdKA2 = dataKA2.std()

xKA1 = dataKA1.mean()
```

```
xKA2 = dataKA2.mean()
 z = (xKA1 - xKA2) / (sqrt( ((sdKA1**2)/nKA1) + ((sdKA2**2)/nKA2) ))
 pval = 2*(norm.sf(abs(z)))
 showTest(
     "H0: u = u0 + 0.2",
     "H1 : u != u0 + 0.2",
     "z test",
     "z = (X1 - X2) / (sqrt( ((sd1^2)/n1) + ((sd2^2)/n2) ))",
     "z_alpha/2 = 1.960",
     z > z_{alpha/2} or z < -z_{alpha/2}
     z, pval
 )
 if(z > z_alphaP2 or z < -z_alphaP2):</pre>
     print("Hipotesis H0 ditolak")
 else:
     print("Hipotesis H0 diterima")
 plt.figure()
 plt.boxplot(data[col])
 plt.title("Boxplot " + col)
 plt.show()
H0: u = u0 + 0.2
H1 : u != u0 + 0.2
Uji statistik z test
z = (X1 - X2) / (sqrt( ((sd1^2)/n1) + ((sd2^2)/n2) ))
z_{alpha/2} = 1.960
Critical Region : z > z_alpha/2 or z < -z_alpha/2
Z = -3.0164987047810152
P-values = 0.002557123103289445
Hipotesis H0 ditolak
                             Boxplot KadarAir
0.9
0.8
0.7
0.6
```

1

Soal 5.c

0.5

0.4

```
In [116... | col = "Bulatan"
          data1 = data[col][0:20]
          data2 = data[col][479:500]
          z alphaP2 = 2.093
          n1 = len(data1)
          n2 = len(data2)
          sd1 = data1.std()
          sd2 = data2.std()
          X1 = data1.mean()
          X2 = data2.mean()
          z = (X1 - X2) / (sqrt( ((sd1**2)/n1) + ((sd2**2)/n2) ))
          pval = 2*(norm.sf(abs(z)))
          showTest(
              "H0 : u = u0",
              "H1 : u != u0",
              "z test",
              "z = (X1 - X2) / (sqrt( ((sd1^2)/n1) + ((sd2^2)/n2) ))",
              "z_alpha/2 = 2.093",
              z > z_{alpha/2} or z < -z_{alpha/2}
              z, pval
          if(z > z_alphaP2 or z < -z_alphaP2):</pre>
              print("Hipotesis H0 ditolak")
          else:
              print("Hipotesis H0 diterima")
          plt.figure()
          plt.boxplot(data[col])
          plt.title("Boxplot " + col)
          plt.show()
         H0 : u = u0
```

```
H0: u = u0

H1: u != u0

Uji statistik z test

z = (X1 - X2) / (sqrt( ((sd1^2)/n1) + ((sd2^2)/n2) ))

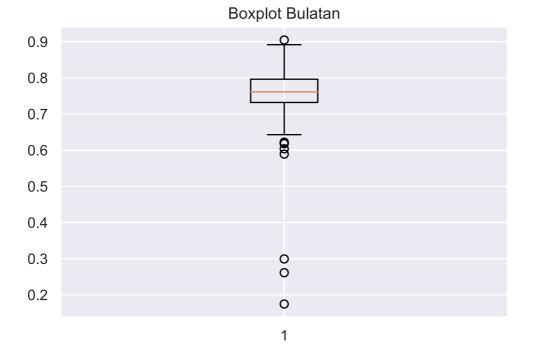
z_alpha/2 = 2.093

Critical Region: z > z_alpha/2 or z < -z_alpha/2

Z = -3.4577735622078336

P-values = 0.0005446589606626397

Hipotesis H0 ditolak
```



Soal 5.d

```
In [117...
          col = "Ransum"
          data1 = data[col][0:250]
          data2 = data[col][250:500]
          data1 = data1[data1 > 2]
          data2 = data2[data2 > 2]
          z_alphaP2 = 1.960
          n1 = 250
          n2 = 250
          x1 = len(data1)
          x2 = len(data2)
          p1 = x1/n1
          p2 = x2/n2
          pBar = (x1 + x2) / (n1 + n2)
          z = (p1 - p2) / (sqrt( pBar*(1-pBar) * ((1/n1) + (1/n2)) ))
          pval = 2*(norm.sf(abs(z)))
           showTest(
               "H0 : P1 <= P2",
               "H1 : P1 \rightarrow P2",
               "z test",
               "z = (p1 - p2) / (sqrt( pBar*(1-pBar) * ((1/n1) + (1/n2)) ))",
               "z_alpha/2 = 1.960",
               z > z_{alpha/2} or z < -z_{alpha/2}
               z, pval
          if(z > z_alphaP2 or z < -z_alphaP2):</pre>
               print("Hipotesis H0 ditolak")
          else:
```

```
print("Hipotesis H0 diterima")

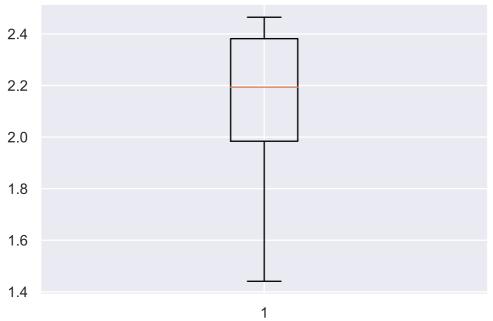
plt.figure()
plt.boxplot(data[col])
plt.title("Boxplot " + col)
plt.show()
```

```
H0 : P1 <= P2
H1 : P1 > P2

Uji statistik z test
z = (p1 - p2) / (sqrt( pBar*(1-pBar) * ((1/n1) + (1/n2)) ))
z_alpha/2 = 1.960
Critical Region : z > z_alpha/2 or z < -z_alpha/2

Z = 13.397486455610238
P-values = 6.254573593207953e-41
Hipotesis H0 ditolak</pre>
```

Boxplot Ransum



Soal 5.e

```
"F = var1 / var2",
    "f_alpha/2 = 1",
    "P-values > 0.05 ",
    "", pval
)

print("F =", f)

if(pval <= 0.05):
    print("Hipotesis H0 ditolak")
else:
    print("Hipotesis H0 diterima")

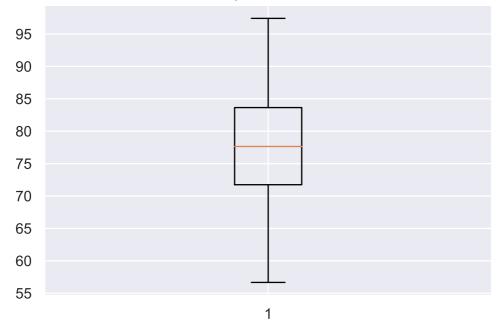
plt.figure()
plt.boxplot(data[col])
plt.title("Boxplot " + col)
plt.show()</pre>
```

```
H0 : u = u0
H1 : u != u0

Uji statistik F test
F = var1 / var2
f_alpha/2 = 1
Critical Region : P-values > 0.05

P-values = 0.26278959201893937
F = 1.083878022042188
Hipotesis H0 diterima
```

Boxplot Diameter



Soal 6

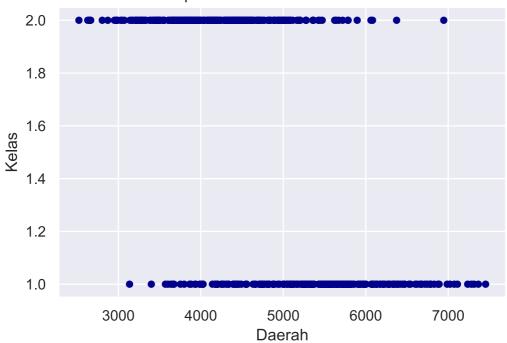
```
for att in attribute:
    if (att == "Kelas"):
        continue

    column_1 = data[att]
    column_2 = data["Kelas"]
    correlation = column_1.corr(column_2)
    print("Korelasi antara", att, "dan Kelas")
    print(correlation)
```

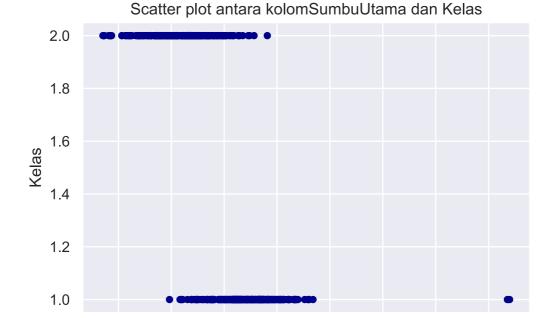
```
corrTitle = "Scatter plot antara kolom"+ att+ " dan Kelas"
data.plot.scatter(x=att, y='Kelas', title= corrTitle, color='DarkBlue')
plt.show()
print()
```

Korelasi antara Daerah dan Kelas -0.6027466517416662





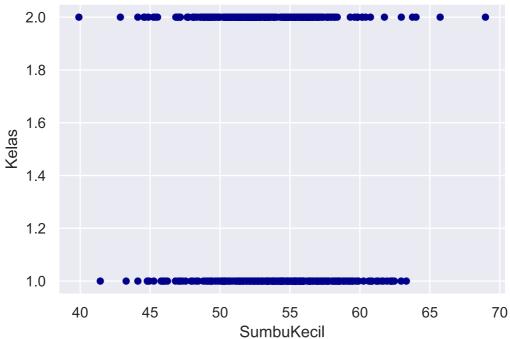
Korelasi antara SumbuUtama dan Kelas -0.7130906104204593



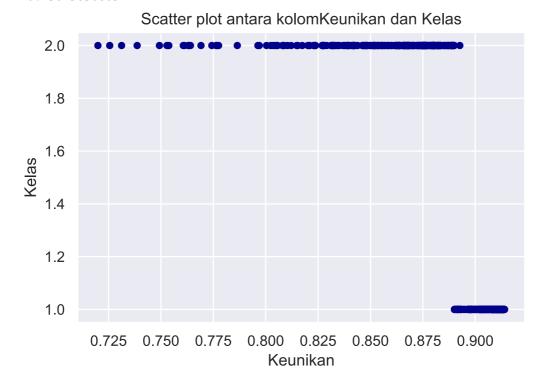
SumbuUtama

Korelasi antara SumbuKecil dan Kelas -0.15297517335535027

Scatter plot antara kolomSumbuKecil dan Kelas

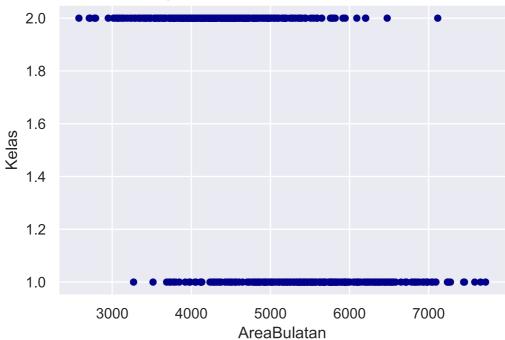


Korelasi antara Keunikan dan Kelas -0.7304563686511922

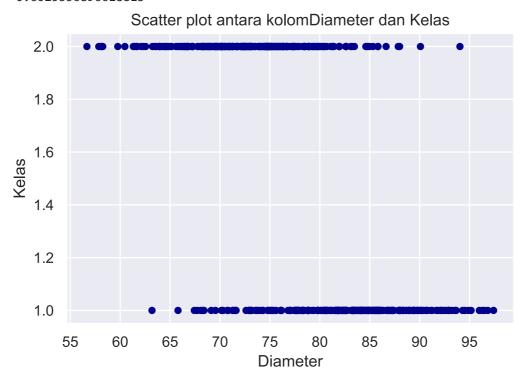


Korelasi antara AreaBulatan dan Kelas -0.6073125434153751

Scatter plot antara kolomAreaBulatan dan Kelas

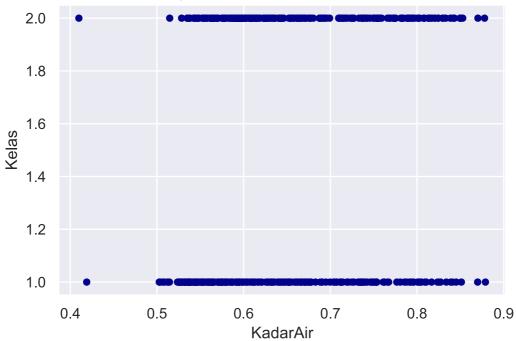


Korelasi antara Diameter dan Kelas -0.6025356896618813

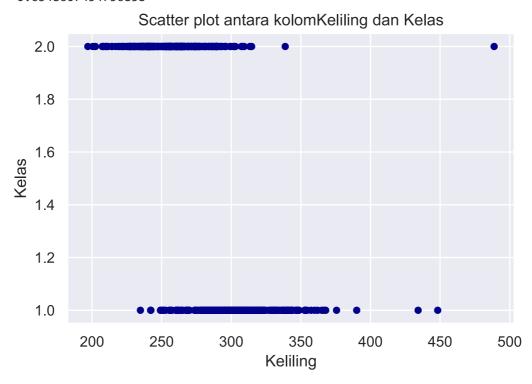


Korelasi antara KadarAir dan Kelas 0.13434422605727642

Scatter plot antara kolomKadarAir dan Kelas

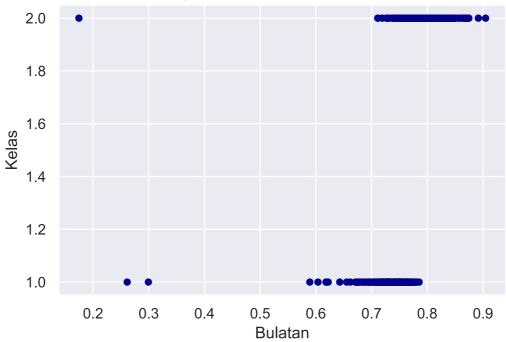


Korelasi antara Keliling dan Kelas -0.6348607454756858



Korelasi antara Bulatan dan Kelas 0.5450045317240076

Scatter plot antara kolomBulatan dan Kelas



Korelasi antara Ransum dan Kelas -0.8399038681287493

