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#SOAL 1 (RAL ONE-WAY)
read.csv("D:\\UNAIR\\SEMESTER 2\\METSTAT\\Data Praktikum M2-20240316\\M2-Data Praktikum
1.txt")
soal prak1=read.table("D:\\UNAIR\\SEMESTER 2\\METSTAT\\Data Praktikum M2-20240316\\M2-Data
Praktikum 1.txt", header=TRUE)
y prak1=soal prak1$Asam Askorbat
perlakuan prak1=soal prak1$Varietas
summary(soal prak1)
ANOVA prak1 <- aov(y prak1 ~ perlakuan prak1, data = soal prak1)
summary(ANOVA prak1)
#SOAL 2 (RAL TWO-WAY)
soal prak2=read.table("D:\\UNAIR\\SEMESTER 2\\METSTAT\\Data Praktikum M2-20240316\\M2-Data
Praktikum 2.txt", header=TRUE)
y_prak2=soal_prak2$Pertumbuhan Tanaman
perlakuanA prak2=soal prak2$Penyiraman
perlakuanB prak2=soal prak2$Penyinaran Matahari
summary(soal prak2)
#tanpa interaksi
ANOVA prak2 <- aov(y prak2 ~ perlakuanA prak2+perlakuanB prak2, data = soal prak2)
summary (ANOVA prak2)
#dengan interaksi
ANOVA_prak2_interaction <- aov(y_prak2 ~ perlakuanA_prak2*perlakuanB_prak2, data =
soal prak2)
summary(ANOVA prak2 interaction)
#SOAL 3 (RAKL)
soal prak3=read.table("D:\\UNAIR\\SEMESTER 2\\METSTAT\\Data Praktikum M2-20240316\\M2-Data
Praktikum 3.txt", header=TRUE)
y prak3=soal prak3$Hardness
perlakuan prak3=soal prak3$Tip
blok prak3=soal prak3$Block
summary(soal prak3)
ANOVA prak3 = aov(y prak3 ~ perlakuan prak3+blok prak3, data = soal prak3)
summary(ANOVA prak3)
#SOAL 1 (RAL ONE-WAY)
read.csv("D:\\UNAIR\\SEMESTER 2\\METSTAT\\soal1.txt")
Soall=read.table("D:\\UNAIR\\SEMESTER 2\\METSTAT\\soall.txt", header=TRUE, colClasses =
c("numeric", "factor"))
y1=Soal1$Hasil
perlakuan=Soal1$Perlakuan
summary(Soal1)
ANOVA1 <- aov(y1 ~ perlakuan, data = Soal1)
summary (ANOVA1)
#SOAL 2 (RAL TWO-WAY)
Soal2=read.table("D:\\UNAIR\\SEMESTER 2\\METSTAT\\soal2.txt", header=TRUE, colClasses =
c("numeric", "factor", "factor"))
y2=Soal2$Gaji
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Perlakuan A=Soal2$Lokasi
Perlakuan B=Soal2$Tipe
summary(Soal2)
#ANOVA
#-----tanpa interaksi-----
ANOVA2 <- aov(y2 ~ Perlakuan_A + Perlakuan_B, data = Soal2)
summary (ANOVA2)
#----dengan interaksi-----
INTERACTION <- aov(y2 ~ Perlakuan A * Perlakuan B, data = Soal2)</pre>
summary(INTERACTION)
#NOMOR 1 (LSD/RBSL)
setwd("D:/UNAIR/SEMESTER 2/METSTAT/")
soal prak1 2=read.table("m3 factorial design rakl 1.txt", header = TRUE, colClasses =
c("factor", "numeric", "factor", "factor"))
soal prak1 2
summary(soal prak1 2)
perlakuan prak1 2=soal prak1 2$Perlakuan
y prak1 2=soal prak1 2$Pertumbuhan Tanaman Jagung
baris prak1 2=soal prak1 2$Baris
kolom prak1 2=soal prak1 2$Kolom
ANOVA prak1 2 = aov(y prak1 2 ~ perlakuan prak1 2+baris prak1 2+kolom prak1 2, data =
soal prak1 2)
summary (ANOVA prak1 2)
#NOMOR 2 (FACTORIAL RAL)
soal prak2 2=read.table("m3 factorial design rakl 2.txt", header = TRUE, colClasses =
c("numeric", "factor", "factor"))
y prak2 2=soal prak2 2$Daya Tahan Battery
jb=soal prak2 2$Jenis Bahan
temp=soal prak2 2$Temperatur
ANOVA prak2 2= aov(y prak2 2 ~ jb+temp+jb*temp, data=soal prak2 2)
summary (ANOVA prak2 2)
#NOMOR 3 (FACTORIAL RAKL)
Data3 <- read.table("m3 factorial design rakl 3.txt", header = TRUE, colClasses =
c("numeric", "factor", "factor", "factor"))
Data3
summary (Data3)
#Subset Data
y3=Data3$Kekuatan Signal
jf=Data3$Jenis Filter
opt=Data3$Operator
lok=Data3$Lokasi
#ANOVA Faktorial RAKL
#Interaksi 3 faktor
ANOVA3 <- aov(y3 ~ jf+opt+lok+jf*opt+jf*lok+opt*lok+jf*opt*lok, data = Data3)
summary(ANOVA3)
```