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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| > library(readxl)  > PCB1 <- read\_excel("E:/Assignment/1083636/PCB1.xlsx")  > View(PCB1)  > library(readxl)  > PCB2 <- read\_excel("E:/Assignment/1083636/PCB2.xlsx")  > View(PCB2)  > summary(PCB1)  > summary(PCB2)     |  |  |  | | --- | --- | --- | | **Statistic** | **Age** | **PCB** | | Mean | 1 | 0.5 | | 1st QR | 2.75 | 2.15 | | Median | 5.5 | 4.3 | | Mean | 5.536 | 7.171 | | 3rd QR | 8 | 9.9 | | Max | 12 | 30.4 |  |  |  |  | | --- | --- | --- | | **Statistic** | **Age** | **PCB** | | Mean | 1 | 0.1 | | 1st QR | 2.75 | 0.375 | | Median | 5.5 | 0.6 | | Mean | 5.536 | 0.6 | | 3rd QR | 8 | 0.825 | | Max | 12 | 1.1 |   > plot(PCB1)  E:\Jobs\1083636\1083636\RplotPCB1.png  > plot(PCB2)  E:\Jobs\1083636\1083636\RplotPCB2.png  > cor(PCB1)  Age PCB  Age 1.0000000 0.7363613  PCB 0.7363613 1.0000000  > cor(PCB2)  Age PCB  Age 1.00000000 0.04011459  PCB 0.04011459 1.00000000  > PCB1model <- lm(formula = PCB ~ Age, data = PCB1)  > summary(PCB1model)  Call:  lm(formula = PCB ~ Age, data = PCB1)  Residuals:  Min 1Q Median 3Q Max  -9.8413 -2.3369 -0.0214 1.0592 17.8320  Coefficients:  Estimate Std. Error t value Pr(>|t|)  (Intercept) -1.4519 1.8353 -0.791 0.436  Age 1.5578 0.2807 5.549 7.93e-06 \*\*\*  ---  Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1  Residual standard error: 5.168 on 26 degrees of freedom  Multiple R-squared: 0.5422, Adjusted R-squared: 0.5246  F-statistic: 30.8 on 1 and 26 DF, p-value: 7.931e-06  > PCB2model <- lm(formula = PCB ~ Age, data = PCB2)  > summary(PCB2model)  Call:  lm(formula = PCB ~ Age, data = PCB2)  Residuals:  Min 1Q Median 3Q Max  -0.5052 -0.2319 0.0019 0.2287 0.5161  Coefficients:  Estimate Std. Error t value Pr(>|t|)  (Intercept) 0.58040 0.11307 5.133 2.37e-05 \*\*\*  Age 0.00354 0.01729 0.205 0.839  ---  Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1  Residual standard error: 0.3184 on 26 degrees of freedom  Multiple R-squared: 0.001609, Adjusted R-squared: -0.03679  F-statistic: 0.04191 on 1 and 26 DF, p-value: 0.8394 |
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