> summary(dengue.fsha.1)

Call:

lm(formula = soldeng\_complete\_data ~ x[, 1] + y[, 1] + x[, 2] +

y[, 2] + x[, 3] + y[, 3] + x[, 4] + y[, 4] + x[, 5] + y[,

5] + x[, 6])

Residuals:

Min 1Q Median 3Q Max

-20.111 -8.417 -3.278 4.917 71.778

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 10.0556 1.5028 6.691 1.48e-09 \*\*\*

x[, 1] 2.3610 2.1252 1.111 0.26937

y[, 1] -7.1808 2.1252 -3.379 0.00105 \*\*

x[, 2] -2.2315 2.1252 -1.050 0.29636

y[, 2] 0.6575 2.1252 0.309 0.75769

x[, 3] 0.1481 2.1252 0.070 0.94457

y[, 3] 0.9630 2.1252 0.453 0.65149

x[, 4] -0.5278 2.1252 -0.248 0.80440

y[, 4] -0.9141 2.1252 -0.430 0.66806

x[, 5] -1.2314 2.1252 -0.579 0.56367

y[, 5] 1.2549 2.1252 0.590 0.55626

x[, 6] 0.4259 1.5028 0.283 0.77746

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 15.62 on 96 degrees of freedom

Multiple R-squared: 0.1357, Adjusted R-squared: 0.03665

F-statistic: 1.37 on 11 and 96 DF, p-value: 0.1996

> summary(dengue.fsha.2)

Call:

lm(formula = soldeng\_complete\_data ~ x[, 1] + y[, 1] + x[, 2] +

y[, 2] + y[, 3] + x[, 4] + y[, 4] + x[, 5] + y[, 5] + x[,

6])

Residuals:

Min 1Q Median 3Q Max

-19.963 -8.491 -3.278 5.056 71.778

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 10.0556 1.4950 6.726 1.21e-09 \*\*\*

x[, 1] 2.3610 2.1143 1.117 0.266885

y[, 1] -7.1808 2.1143 -3.396 0.000991 \*\*\*

x[, 2] -2.2315 2.1143 -1.055 0.293853

y[, 2] 0.6575 2.1143 0.311 0.756471

y[, 3] 0.9630 2.1143 0.455 0.649801

x[, 4] -0.5278 2.1143 -0.250 0.803407

y[, 4] -0.9141 2.1143 -0.432 0.666439

x[, 5] -1.2314 2.1143 -0.582 0.561642

y[, 5] 1.2549 2.1143 0.594 0.554207

x[, 6] 0.4259 1.4950 0.285 0.776333

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 15.54 on 97 degrees of freedom

Multiple R-squared: 0.1356, Adjusted R-squared: 0.04653

F-statistic: 1.522 on 10 and 97 DF, p-value: 0.143

|  |
| --- |
| > summary(dengue.fsha.3)  Call:  lm(formula = soldeng\_complete\_data ~ x[, 1] + y[, 1] + x[, 2] +  y[, 2] + y[, 3] + y[, 4] + x[, 5] + y[, 5] + x[, 6])  Residuals:  Min 1Q Median 3Q Max  -19.699 -8.630 -3.076 4.685 71.250  Coefficients:  Estimate Std. Error t value Pr(>|t|)  (Intercept) 10.0556 1.4879 6.758 1.01e-09 \*\*\*  x[, 1] 2.3610 2.1042 1.122 0.264574  y[, 1] -7.1808 2.1042 -3.413 0.000936 \*\*\*  x[, 2] -2.2315 2.1042 -1.061 0.291519  y[, 2] 0.6575 2.1042 0.312 0.755329  y[, 3] 0.9630 2.1042 0.458 0.648219  y[, 4] -0.9141 2.1042 -0.434 0.664921  x[, 5] -1.2314 2.1042 -0.585 0.559748  y[, 5] 1.2549 2.1042 0.596 0.552289  x[, 6] 0.4259 1.4879 0.286 0.775278  ---  Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1  Residual standard error: 15.46 on 98 degrees of freedom  Multiple R-squared: 0.1351, Adjusted R-squared: 0.05566  F-statistic: 1.701 on 9 and 98 DF, p-value: 0.09893 |
|  |
| |  | | --- | | > | |

> summary(dengue.fsha.4)

Call:

lm(formula = soldeng\_complete\_data ~ x[, 1] + y[, 1] + x[, 2] +

y[, 2] + y[, 3] + y[, 4] + x[, 5] + y[, 5])

Residuals:

Min 1Q Median 3Q Max

-19.273 -8.204 -3.502 4.973 70.824

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 10.0556 1.4809 6.790 8.4e-10 \*\*\*

x[, 1] 2.3610 2.0944 1.127 0.262336

y[, 1] -7.1808 2.0944 -3.429 0.000886 \*\*\*

x[, 2] -2.2315 2.0944 -1.065 0.289258

y[, 2] 0.6575 2.0944 0.314 0.754217

y[, 3] 0.9630 2.0944 0.460 0.646679

y[, 4] -0.9141 2.0944 -0.436 0.663445

x[, 5] -1.2314 2.0944 -0.588 0.557906

y[, 5] 1.2549 2.0944 0.599 0.550424

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 15.39 on 99 degrees of freedom

Multiple R-squared: 0.1344, Adjusted R-squared: 0.06441

F-statistic: 1.921 on 8 and 99 DF, p-value: 0.06506

> summary(dengue.fsha.5)

Call:

lm(formula = soldeng\_complete\_data ~ x[, 1] + y[, 1] + x[, 2] +

y[, 3] + y[, 4] + x[, 5] + y[, 5])

Residuals:

Min 1Q Median 3Q Max

-19.176 -8.363 -3.546 4.546 70.824

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 10.0556 1.4743 6.821 7.01e-10 \*\*\*

x[, 1] 2.3610 2.0849 1.132 0.260163

y[, 1] -7.1808 2.0849 -3.444 0.000838 \*\*\*

x[, 2] -2.2315 2.0849 -1.070 0.287062

y[, 3] 0.9630 2.0849 0.462 0.645177

y[, 4] -0.9141 2.0849 -0.438 0.662004

x[, 5] -1.2314 2.0849 -0.591 0.556110

y[, 5] 1.2549 2.0849 0.602 0.548606

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 15.32 on 100 degrees of freedom

Multiple R-squared: 0.1335, Adjusted R-squared: 0.07285

F-statistic: 2.201 on 7 and 100 DF, p-value: 0.04032

> summary(dengue.fsha.6)

Call:

lm(formula = soldeng\_complete\_data ~ x[, 1] + y[, 1] + x[, 2] +

y[, 3] + x[, 5] + y[, 5])

Residuals:

Min 1Q Median 3Q Max

-19.176 -7.922 -3.546 5.078 70.824

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 10.056 1.468 6.848 5.95e-10 \*\*\*

x[, 1] 2.361 2.077 1.137 0.258236

y[, 1] -7.181 2.077 -3.458 0.000798 \*\*\*

x[, 2] -2.232 2.077 -1.075 0.285113

y[, 3] 0.963 2.077 0.464 0.643840

x[, 5] -1.231 2.077 -0.593 0.554512

y[, 5] 1.255 2.077 0.604 0.546988

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 15.26 on 101 degrees of freedom

Multiple R-squared: 0.1318, Adjusted R-squared: 0.08026

F-statistic: 2.556 on 6 and 101 DF, p-value: 0.024

> summary(dengue.fsha.7)

Call:

lm(formula = soldeng\_complete\_data ~ x[, 1] + y[, 1] + x[, 2] +

x[, 5] + y[, 5])

Residuals:

Min 1Q Median 3Q Max

-19.042 -8.792 -3.331 5.134 71.787

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 10.056 1.463 6.875 5.07e-10 \*\*\*

x[, 1] 2.361 2.069 1.141 0.256383

y[, 1] -7.181 2.069 -3.471 0.000761 \*\*\*

x[, 2] -2.231 2.069 -1.079 0.283238

x[, 5] -1.231 2.069 -0.595 0.552970

y[, 5] 1.255 2.069 0.607 0.545428

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 15.2 on 102 degrees of freedom

Multiple R-squared: 0.13, Adjusted R-squared: 0.08734

F-statistic: 3.048 on 5 and 102 DF, p-value: 0.01321

> summary(dengue.fsha.8)

Call:

lm(formula = soldeng\_complete\_data ~ x[, 1] + y[, 1] + x[, 2] +

y[, 5])

Residuals:

Min 1Q Median 3Q Max

-19.657 -8.090 -3.932 4.835 71.787

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 10.056 1.458 6.896 4.42e-10 \*\*\*

x[, 1] 2.361 2.062 1.145 0.254873

y[, 1] -7.181 2.062 -3.482 0.000731 \*\*\*

x[, 2] -2.231 2.062 -1.082 0.281709

y[, 5] 1.255 2.062 0.609 0.544152

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 15.15 on 103 degrees of freedom

Multiple R-squared: 0.127, Adjusted R-squared: 0.09306

F-statistic: 3.745 on 4 and 103 DF, p-value: 0.006925

> summary(dengue.fsha.9)

Call:

lm(formula = soldeng\_complete\_data ~ x[, 1] + y[, 1] + x[, 2])

Residuals:

Min 1Q Median 3Q Max

-19.468 -7.394 -3.440 5.228 70.532

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 10.056 1.454 6.917 3.86e-10 \*\*\*

x[, 1] 2.361 2.056 1.148 0.253414

y[, 1] -7.181 2.056 -3.493 0.000703 \*\*\*

x[, 2] -2.231 2.056 -1.085 0.280232

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 15.11 on 104 degrees of freedom

Multiple R-squared: 0.1238, Adjusted R-squared: 0.09855

F-statistic: 4.899 on 3 and 104 DF, p-value: 0.003171

> summary(dengue.fsha.10)

Call:

lm(formula = soldeng\_complete\_data ~ x[, 1] + y[, 1])

Residuals:

Min 1Q Median 3Q Max

-17.455 -8.510 -3.238 4.513 72.764

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 10.056 1.455 6.911 3.85e-10 \*\*\*

x[, 1] 2.361 2.058 1.147 0.253789

y[, 1] -7.181 2.058 -3.490 0.000707 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 15.12 on 105 degrees of freedom

Multiple R-squared: 0.1139, Adjusted R-squared: 0.09702

F-statistic: 6.748 on 2 and 105 DF, p-value: 0.001749

> summary(dengue.fsha.11)

Call:

lm(formula = soldeng\_complete\_data ~ y[, 1])

Residuals:

Min 1Q Median 3Q Max

-17.236 -9.339 -3.837 4.637 72.764

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 10.056 1.457 6.901 3.91e-10 \*\*\*

y[, 1] -7.181 2.061 -3.485 0.000717 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 15.14 on 106 degrees of freedom

Multiple R-squared: 0.1028, Adjusted R-squared: 0.09432

F-statistic: 12.14 on 1 and 106 DF, p-value: 0.0007175

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[1] 913.4182 911.4237 909.4930 907.5833 905.6908 903.8982 902.1279

[8] 900.5025 898.8901 898.1067 897.4527

fv\_ts[1:12]

1 2 3 4 5 6 7

6.465142 3.836777 2.874728 3.836777 6.465142 10.055556 13.645969

8 9 10 11 12

16.274335 17.236383 16.274335 13.645969 10.055556