

# [Assignment 4](https://assignbuster.com/assignment-4-admission-essay-samples/)

[Literature](https://assignbuster.com/essay-subjects/literature/), [Russian Literature](https://assignbuster.com/essay-subjects/literature/russian-literature/)

Assignment 4 SUMMARY OUTPUT Regression Statistics Multiple R 0. 728985 R Square 0. 531419 Adjusted R Square
0. 511895
Standard Error
11. 88148
Observations
26
ANOVA

df
SS
MS
F
Significance F
Regression
1
3842. 429
3842. 429
27. 21852
2. 4E-05
Residual
24
3388. 071
141. 1696
Total
25
7230. 5

Coefficients
Standard Error
t Stat
P-value
Lower 95%
Upper 95%
Lower 95. 0%
Upper 95. 0%
Intercept
-0. 39641
3. 68541
-0. 10756
0. 915238
-8. 00272
7. 209904
-8. 00272
7. 209904
0
0. 57807
0. 110802
5. 217137
2. 4E-05
0. 349385
0. 806754
0. 349385
0. 806754
RESIDUAL OUTPUT
Observation
Predicted 6
Residuals
1
43. 53688
14. 46312
2
4. 228148
-7. 22815
3
7. 696565
-4. 69657
4
15. 78954
15. 21046
5
20. 4141
7. 585903
6
31. 97549
-3. 97549
7
15. 78954
5. 21046
8
3. 072009
6. 927991
9
11. 16498
-29. 165
10
15. 78954
-22. 7895
11
-0. 39641
14. 39641
12
11. 16498
-6. 16498
13
35. 44391
16. 55609
14
3. 072009
6. 927991
15
11. 16498
-1. 16498
16
23. 88251
-2. 88251
17
23. 88251
-16. 8825
18
38. 91232
-11. 9123
19
3. 072009
6. 927991
20
10. 00884
-4. 00884
21
4. 228148
-8. 22815
22
-0. 39641
3. 396409
23
19. 25796
1. 742043
24
16. 94568
5. 054321
25
7. 696565
13. 30343
26
-0. 39641
1. 396409
The coefficient is significantly different from zero. The coefficient 0. 5780696 is considerably larger than the significance level, α= 0. 05. Therefore, the decision is to reject the null hypothesis. Therefore, the independent variable is held as the explanatory variable. This means that the evidence obtained is sufficient to safely determine that the linear relationship between the variables x and y. this is owing to the fact that the correlation coefficient is sufficiently different from 0
The coefficient is not significantly different from 1. The coefficient 0. 5780696 is considerably larger than the confidence level, α= 0. 05. With a P values that is significantly less than the confidence level Therefore, the decision is to reject the null hypothesis. Therefore, the independent variable is held as the explanatory variable. This means that the evidence obtained is sufficient to safely determine that the linear relationship between the variables x and y. this is owing to the fact that the correlation coefficient is sufficiently different from 1.
Works Cited
Vogt, Paul W and Burke Johnson. Correlation and regression analysis. Los Angeles: SAGE, 2012. Print.