

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

[](https://assignbuster.com/)[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.