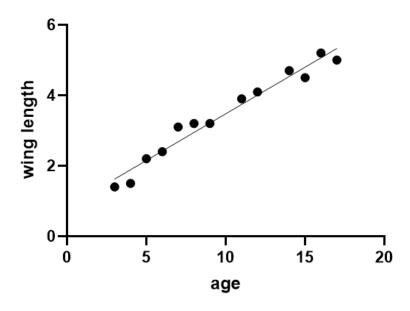
# 1. Plot the relationship between Age and Wing Length.



#### 2. Calculate and plot the regression line.

Based on the output calculated above, the regression line is: y=0.925+0.257x

SUMMARY OUTPUT								
Regression	Statistics							
Multiple R	0.978352135							
R Square	0.9571729							
Adjusted R Square	0.95289019							
Standard Error	0.255616664							
Observations	12							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	1	14.60327	14.60327	223.4970138	3.6107E-08			
Residual	10	0.653399	0.06534					
Total	11	15.25667						
	Coefficients	andard Erro	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.925075529	0.192515	4.805206	0.000717993	0.496124819	1.35402624	0.496124819	1.354026239
age	0.257250755	0.017208	14.94982	3.6107E-08	0.21890979	0.29559172	0.21890979	0.295591721

# 3. Can you reject H0:b=0?

I believe so, the correlation is close and the p value is less than 0.05.

#### 4. Calculate and plot the confidence intervals on the slope of the regression.

Based on the output above, the confidence intervals are as follows: [0.2955,0.2189]

# 4. Calculate r2 (the coefficient of determination)

Based on the above output, the r^2 is 0.957

# 6. Calculate Pearson's r.

	Age	Wing Length
Age	1	J J
Wing Length	0.981520378	1

From the output from above the pearson's r is 0.981 which is a strong positive correlation.