```
> #Q3
> #a
> q3a <- lm(formula = log(fare) ~ log(dist) + log(pass),data = air)
> summary(q3a)

Call:
lm(formula = log(fare) ~ log(dist) + log(pass), data = air)

Residuals:
    Min     1Q Median    3Q    Max
-0.64140 -0.20954 -0.04705  0.17171  0.94919

Coefficients:
         Estimate Std. Error t value Pr(>|t|)
(Intercept)  3.02929   0.11880  25.498  < 2e-16 ***
log(dist)   0.34815   0.01280  27.201  < 2e-16 ***
log(pass)  -0.05643   0.01129  -4.998 6.85e-07 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.2636 on 997 degrees of freedom
Multiple R-squared:  0.451,   Adjusted R-squared:  0.4499
F-statistic: 409.5 on 2 and 997 DF,  p-value: < 2.2e-16
```