


```

lm(formula = Price ~ Area, data = house_data)

Residuals:
    Min      1Q  Median      3Q     Max 
-1.0477 -0.5610 -0.1008  0.5532  1.3115 

Coefficients:
            Estimate Std. Error t value Pr(>|t|)    
(Intercept) 2.0764158  0.7328147  2.833   0.022 *  
Area        0.0282040  0.0003641 77.454 8.61e-13 *** 
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.8268 on 8 degrees of freedom
Multiple R-squared:  0.9987, Adjusted R-squared:  0.9985 
F-statistic: 5999 on 1 and 8 DF,  p-value: 8.606e-13

>
> #g) The regression was run on 10 observations
>
> #h) What is the R-squared
>
> print(paste("R squared error = ", summary(model)$r.squared))
[1] "R squared error = 0.998668251944291"
>
> #i) Is Size statistically significant predictor?
>
> summary(model)$coefficients
            Estimate Std. Error t value Pr(>|t|)    
(Intercept) 2.07641583 0.7328146849  2.83348 2.203189e-02
Area        0.02820403 0.0003641385 77.45413 8.605534e-13
>
> #j) Regression equation
>
> #Price = 2.123 + 0.0285 × Area
> #Price = coeff. * area + intercept
> |

```

