

```
R5_coral_reefs.R* x
1 # Question 4.5 on p97
2
3 temperature = c(29.68, 29.87, 30.01, 30.25, 30.47, 30.65, 30.90)
4 growth = c(2.63, 2.57, 2.67, 2.60, 2.47, 2.39, 2.25)
5
6 plot(temperature, growth,
7     pch = 18,
8     col = "blue",
9     xlab = "Temperature (Celsius)",
10    ylab = "Growth (mm/y)",
11    main = "Coral Reefs"
12    )
13
14 reef_regression = lm(growth~temperature)
15 reef_regression
16 abline(reef_regression, col = "red")
17 cor(temperature, growth)
```

17:25 (Top Level) R Script

```
Console Terminal x Jobs x
~/
(intercept) temperature
11.8109 -0.3073

> abline(reef_regression, col = "red")
> cor(temperature, growth)
[1] -0.8986402
>
```

Environment History Connections Tutorial

Global Environment

Data

reef_regre...	List of 12
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Values

growth	num [1:7] 2.63 2.57 2.67 2.6 2...
temperature	num [1:7] 29.7 29.9 30 30.2 30...

Files Plots Packages Help Viewer

Zoom Export

