

R output for Week 5, Question 3

```
> tem <- c(66, 70, 69, 68, 67, 72, 73, 70, 57, 63, 70, 78, 67, 53, 67,
+ 75, 70, 81, 76, 79, 75, 76, 58)
> td <- c(0, 1, 0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0,
+ 1, 0, 1)
> dat <- cbind(tem, td)
> n <- rep(1, 23)
> tdm <- cbind(td, (n - td))
> glm <- glm(tdm ~ tem, family = binomial)
> summary(glm)
```

Call:

```
glm(formula = tdm ~ tem, family = binomial)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-1.0611	-0.7613	-0.3783	0.4524	2.2175

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	15.0429	7.3786	2.039	0.0415 *
tem	-0.2322	0.1082	-2.145	0.0320 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 28.267 on 22 degrees of freedom

Residual deviance: 20.315 on 21 degrees of freedom

AIC: 24.315

Number of Fisher Scoring iterations: 5

```
> glm$fitted
```

1	2	3	4	5	6	7	8
0.43049313	0.22996826	0.27362105	0.32209405	0.37472428	0.15804910	0.12954602	0.22996826
9	10	11	12	13	14	15	16
0.85931657	0.60268105	0.22996826	0.04454055	0.37472428	0.93924781	0.37472428	0.08554356
17	18	19	20	21	22	23	
0.22996826	0.02270329	0.06904407	0.03564141	0.08554356	0.06904407	0.82884484	