```
SATSex2<-lm(FYGPA~SATM*SEX,data=satGPA)
summary(SATSex2)

##
## Call:
## lm(formula = FYGPA ~ SATM * SEX, data = satGPA)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -2.4228 -0.4233  0.0189  0.4662  1.6730
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)       0.190971   0.203740    0.94     0.35
## SATM              0.039056   0.003571   10.94   <2e-16 ***
## SEXFEMALE         0.363334   0.283592    1.28     0.20
## SATM:SEXFEMALE   -0.000924   0.005167   -0.18     0.86
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.667 on 996 degrees of freedom
## Multiple R-squared:  0.192,Adjusted R-squared:  0.189
## F-statistic: 78.8 on 3 and 996 DF,  p-value: <2e-16
```