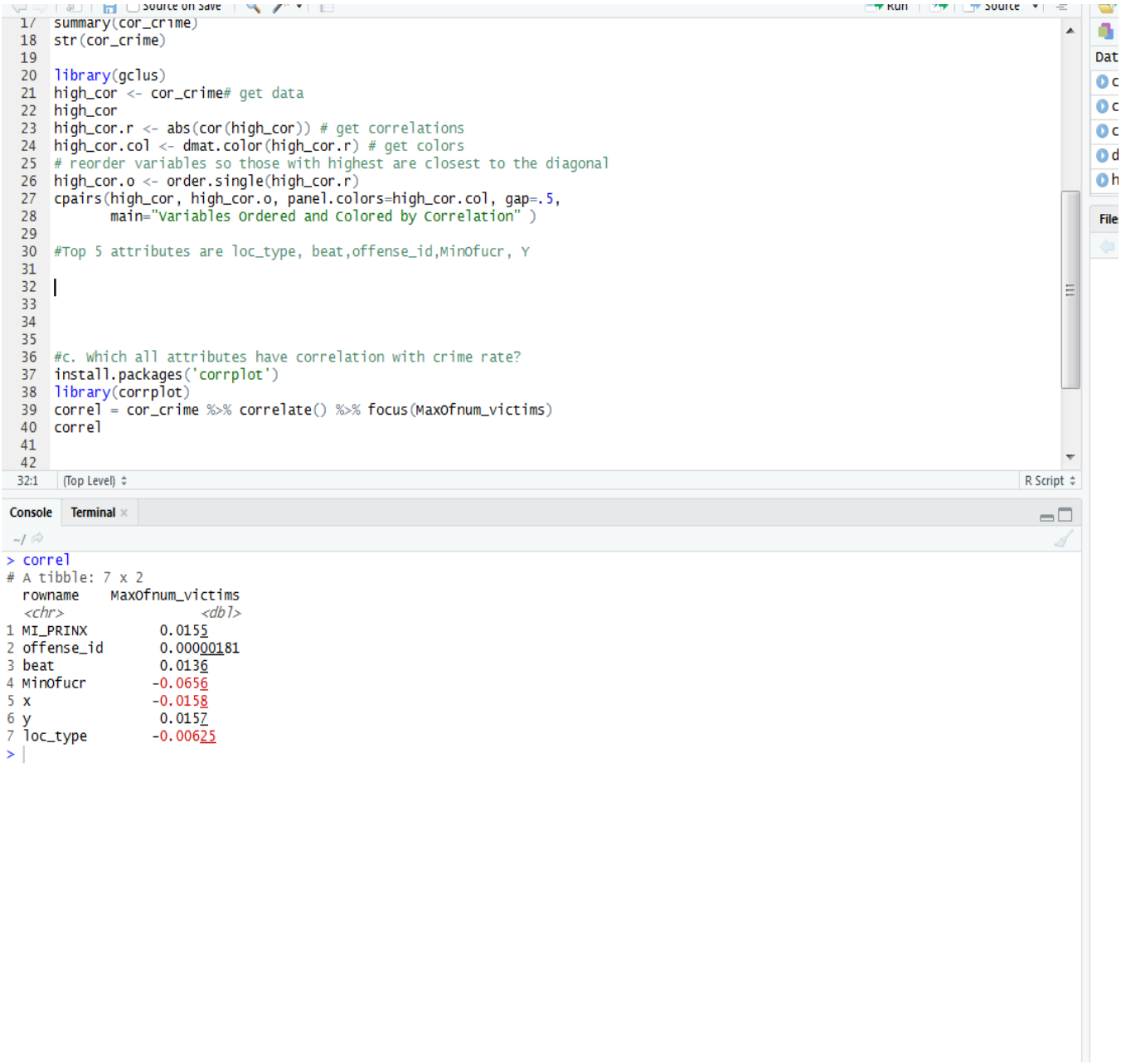
a. Find out top 5 attributes having highest correlation (select only Numeric features).

#Top 5 attributes are loc_type, beat, offense_id, MinOfucr, Y

c. Which all attributes have correlation with crime rate?

MinOfucr , X, Y, MI_PRINX,beat



```
summary(cor_crime)
str(cor_crime)

library(gclus)
high_cor <- cor_crime# get data
high_cor
high_cor.r <- abs(cor(high_cor)) # get correlations
high_cor.col <- dmat.color(high_cor.r) # get colors
# reorder variables so those with highest are closest to the diagonal
high_cor.o <- order.single(high_cor.r)
cpairs(high_cor, high_cor.o, panel.colors=high_cor.col, gap=.5,
       main="Variables Ordered and Colored by Correlation" )

#Top 5 attributes are loc_type, beat,offense_id,MinOfucr, Y



#c. Which all attributes have correlation with crime rate?
install.packages('corrplot')
library(corrplot)
correl = cor_crime %>% correlate() %>% focus(MaxOfnum_victims)
correl
```

32:1 (Top Level) R Script

Console Terminal

```
> correl
# A tibble: 7 x 2
  rowname    MaxOfnum_victims
  <chr>                 <dbl>
1 MI_PRINX            0.0155
2 offense_id          0.00000181
3 beat                0.0136
4 MinOfucr           -0.0656
5 x                  -0.0158
6 y                   0.0157
7 loc_type           -0.00625
>
```