

AP

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```
library(lpSolveAPI)
setwd("D:/quant Mgt")
AP <- read.lp("AP.lp")
AP
```

```
## Model name:
##           X1    X2    X3    X4    X5    X6    X7
## Minimize  775  800  800  800  800  775  750
## Shift_Sun    0    1    1    1    1    1    0 >= 18
## Shift_Mon    0    0    1    1    1    1    1 >= 27
## Shift_Tue    1    0    0    1    1    1    1 >= 22
## Shift_Wed    1    1    0    0    1    1    1 >= 26
## Shift_Thu    1    1    1    0    0    1    1 >= 25
## Shift_Fri    1    1    1    1    0    0    1 >= 21
## Shift_Sat    1    1    1    1    1    0    0 >= 19
## Kind        Std  Std  Std  Std  Std  Std  Std
## Type        Int  Int  Int  Int  Int  Int  Int
## Upper       Inf  Inf  Inf  Inf  Inf  Inf  Inf
## Lower        0    0    0    0    0    0    0
```

```
solve(AP)
```

```
## [1] 0
```

```
get.objective(AP)
```

```
## [1] 25675
```

```
get.variables(AP)
```

```
## [1] 2 4 5 0 8 1 13
```

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

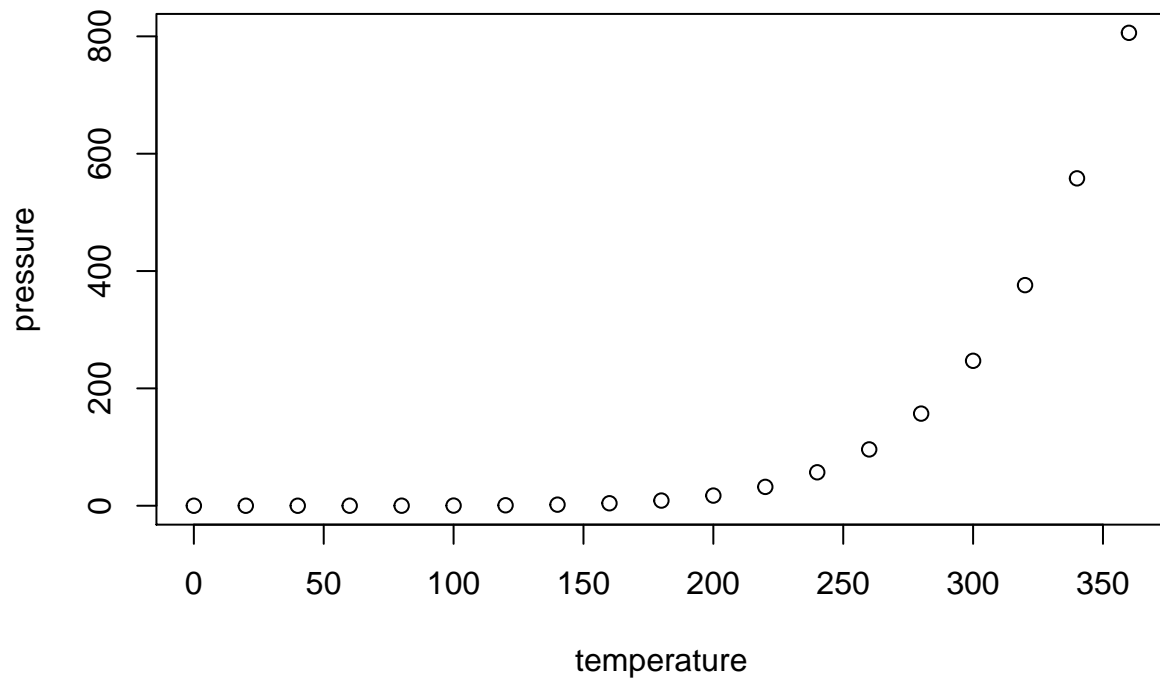
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed      dist
##  Min.   : 4.0    Min.    : 2.00
## 1st Qu.:12.0    1st Qu.: 26.00
## Median :15.0    Median : 36.00
## Mean   :15.4    Mean    : 42.98
## 3rd Qu.:19.0    3rd Qu.: 56.00
## Max.   :25.0    Max.    :120.00
```

Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.