Assignment 2

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#Getting required Packages

```
#install.packages("lpSolve")
#install.packages("knitr")
#install.packages("tinytex")
#tinytex::install_tinytex()
library(tinytex)
library(knitr)
library(lpSolve)
```

 $\# \mbox{Objective Function}$ is to maximize

```
f.obj <- c(420,360,300,420,360,300,420,360,300)
```

#Constraints

#Directions of the inequalities

Right-hand side coefficients

Finding the value of Objective function

```
lp("max",f.obj,f.con,f.dir,f.rhs)
```

 $\mbox{\tt \#\#}$ Success: the objective function is 708000

#Finding the solution of the variables

```
lp("max",f.obj,f.con,f.dir,f.rhs)$solution
```

```
## [1] 350.0000 400.0000 0.0000 0.0000 500.0000 0.0000 133.3333
## [9] 250.0000
```