

Schedule using R

Our objective is that whenever we launch R, it will search our tasks automatically. Assume that our task is located under `c:/temp/schedule.txt`

Step 1: find your R's starting location by issuing the command of `getwd()` .

```
> getwd()
[1] "C:/Users/yany/Documents"
```

The above result suggests that the R is started from `c:/Users/yany/Documents/` directory. Note that different users would get different results.

Step 2: Generate a file called `.Rprofile`, shown below.

```
.First <- function(){
  source("c:/temp/schedule.R")
  print(.schedule())
}
```

Save the above file called `.Rprofile` to the location `c:/Users/yany/Documents/`. Again, users should use the location they found from Step 1.

Step 3: Generate a file called `schedule.R`, shown below.

```
.schedule<-function(infile='c:/temp/schedule.txt'){
  library(utils)
  today<-Sys.Date()
  x<-read.table(infile,skip=1,header=T,sep=';')
  d<-data.frame(as.Date(x[,1],"%m/%d"),x[,2])
  colnames(d)<-c("date","task")
  diff<-d[,1]-today
  d2<-subset(d,diff>=0 & diff<=1)
  if(nrow(d2)==0){
    cat("      No tasks for the next 2 days\n")
  }else{
    tt<-paste(format(d2[,1],"%m"),format(d2[,1],"%d"), sep='/')
    ttt<-paste(tt, "(",weekdays(d2[,1]),")", sep='')
    d3<-data.frame(ttt,d2[,2])
    colnames(d3)<-c("Date","Tasks")
    format(d3,justify = "left")
  }
}
```

Save above R program at `c:/temp/`.

Step 4: generate a text file called `schedule.txt` with just two lines, shown below.

```
date;task
3/18; meeting at 2:30pm in room 333
```

Appendix A: Example of a schedule.txt

```
#schedule.txt keep those first two lines no single quotation!!
date;task
# --- personal -----
3/18; old card will expire
3/27; Minority faculty, 12:00-1:00 Library Conference Room:
3/8; WSB faculty meetingat 12:30pm in Old Main 223.
3/11; Data Analytics meeting from 6-7 on Campus
# *-----Senate meeting -----*
2/8; February 8 2:00 to 6:00 P.M.
2/22; February 22 2:00 to 6:00 P.M.
3/8; March 8 1:00 to 3:00 P.M.
4/12; April 12 2:00 to 5:00 P.M.
5/3; May 3 10:00 A.M. to 2:00 P.M.
# *-----GCC -----*
2/12; GCC Meeting, (Professional Board Room)
2/26; GCC meeting, 2:30 PM-3:45 PM PBR
3/12; GCC meeting, 2:30 PM-3:45 student Center - 2nd Fl room 207
3/26; GCC meeting, 2:30 PM-3:45 PM PBR
4/9; GCC meeting, 2:30 PM-3:45 PM, PBR
4/23; GCC meeting, 2:30 PM-3:45 PM (location:BPR)
5/7; GCC meeting, 2:30 PM-3:45 PM (location: BPR)
```