





ETS, ARIMA, ARMA, R  
 forecast  
 “R” R, Quarto Rstudio  
 tidyverse, R code (> +), console ##  
 R code R code

```
depart <- scan("https://raw.githubusercontent.com/yjyjpark/TS-with-R/main/Data/depart.txt")
```

```
R

sessionInfo()
## R version 4.2.2 (2022-10-31 ucrt)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 10 x64 (build 22621)
##
## Matrix products: default
##
## locale:
## [1] LC_COLLATE=Korean_Korea.utf8 LC_CTYPE=Korean_Korea.utf8
## [3] LC_MONETARY=Korean_Korea.utf8 LC_NUMERIC=C
## [5] LC_TIME=Korean_Korea.utf8
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods   base
##
## other attached packages:
## [1] expsmoother_2.3 fma_2.4      forecast_8.19 fpp2_2.4
## [5] forcats_0.5.2   stringr_1.5.0 dplyr_1.0.10 purrr_0.3.5
## [9] readr_2.1.3     tidyr_1.2.1   tibble_3.1.8 ggplot2_3.4.0
## [13] tidyverse_1.3.2
##
## loaded via a namespace (and not attached):
## [1] tseries_0.10-52 httr_1.4.4      jsonlite_1.8.4
## [4] modelr_0.1.10    assertthat_0.2.1 TTR_0.24.3
## [7] googlesheets4_1.0.1 cellranger_1.1.0 yaml_2.3.6
## [10] pillar_1.8.1     backports_1.4.1 lattice_0.20-45
## [13] glue_1.6.2       quadprog_1.5-8  digest_0.6.30
## [16] rvest_1.0.3      colorspace_2.0-3 htmltools_0.5.4
## [19] timeDate_4021.107 pkgconfig_2.0.3 broom_1.0.1
## [22] haven_2.5.1      scales_1.2.1    tzdb_0.3.0
```

## [25] <i>timechange_0.1.1</i>	<i>googledrive_2.0.0</i>	<i>generics_0.1.3</i>
## [28] <i>ellipsis_0.3.2</i>	<i>withr_2.5.0</i>	<i>urca_1.3-3</i>
## [31] <i>nnet_7.3-18</i>	<i>cli_3.4.1</i>	<i>quantmod_0.4.20</i>
## [34] <i>magrittr_2.0.3</i>	<i>crayon_1.5.2</i>	<i>readxl_1.4.1</i>
## [37] <i>evaluate_0.18</i>	<i>fs_1.5.2</i>	<i>fansi_1.0.3</i>
## [40] <i>nlme_3.1-160</i>	<i>xts_0.12.2</i>	<i>xml2_1.3.3</i>
## [43] <i>tools_4.2.2</i>	<i>hms_1.1.2</i>	<i>gargle_1.2.1</i>
## [46] <i>lifecycle_1.0.3</i>	<i>munSELL_0.5.0</i>	<i>reprex_2.0.2</i>
## [49] <i>compiler_4.2.2</i>	<i>rlang_1.0.6</i>	<i>grid_4.2.2</i>
## [52] <i>rstudioapi_0.14</i>	<i>rmarkdown_2.18</i>	<i>gtable_0.3.1</i>
## [55] <i>fracdiff_1.5-2</i>	<i>curl_4.3.3</i>	<i>DBI_1.1.3</i>
## [58] <i>R6_2.5.1</i>	<i>zoo_1.8-11</i>	<i>lubridate_1.9.0</i>
## [61] <i>knitr_1.41</i>	<i>fastmap_1.1.0</i>	<i>utf8_1.2.2</i>
## [64] <i>stringi_1.7.8</i>	<i>parallel_4.2.2</i>	<i>Rcpp_1.0.9</i>
## [67] <i>vctrs_0.5.1</i>	<i>dbplyr_2.2.1</i>	<i>tidyselect_1.2.0</i>
## [70] <i>xfun_0.35</i>	<i>lmtest_0.9-40</i>	