```
Karakter islemleri
Temel islemler
 # karakter olusturma yontemleri
 library(stringr)
 k <- ""
 k1 <- character(0)</pre>
 ## [1] ""
 k1
 ## character(0)
 k <- "1"
 k1 <- "2"
 paste(k, k1)
 ## [1] "1 2"
 paste(k, k1, sep = ",")
 ## [1] "1,2"
 print("karakter")
 ## [1] "karakter"
 # quote ve noquote tirnaklari siler
 print("karakter", quote = FALSE)
 ## [1] karakter
 noquote("karakter")
 ## [1] karakter
 cat("karakter")
 ## karakter
 toString(c("sksk", 2, 6))
 ## [1] "sksk, 2, 6"
 # nchar boyutu dondurur
 nchar("ksksksk sllsls lslls")
 ## [1] 20
 #vectorun boyutunu verir
 length(c("jjj",3,5))
 ## [1] 3
 # belirtilen karakteri belirtilen karakter ile degistirir
 chartr("e", "S", "el ele el ele")
 ## [1] "S1 S1S S1 S1S"
 # kendince elemanlari kisaltir
 renkeler <- colors()[1:6]</pre>
 abbreviate(renkeler, minlength = 3)
           white aliceblue antiquewhite antiquewhite1 antiquewhite2
 ##
           "wht"
                    "alc" "ant" "an1" "an2"
 ## antiquewhite3
            "an3"
 #belirlenen sub stringi dondurur
 substr("nurullah", 2, 5)
 ## [1] "urul"
 # grep belirlenen stringin vector icindeki yerleri dondurur
 v <- c("ali", "mehmet", "veli", "irmak", "ismailali", "ali")</pre>
 grep("ali", v)
 ## [1] 1 5 6
 # sub belirlenen stringi baska string ile degistirme
 v <- c("ali", "mehmet", "veli", "irmak", "ismailali", "ali")</pre>
 sub("ali", "ile", v)
 ## [1] "ile"
                   "mehmet" "veli"
                                          "ırmak" "ismailile" "ile"
vectorel islemler
 a <- c("R", "sql", "Python", "SPSS", "SAS")</pre>
 b <- c( "sql","R", "Python","SPSS", "Excel")</pre>
 c <- c("R", "sql", "Python", "SAS", "SPSS")
 #union birlestirir
 union(a,b)
 ## [1] "R"
                "sql" "Python" "SPSS" "SAS" "Excel"
 #kesisim
 intersect(a,b)
 ## [1] "R"
                "sql" "Python" "SPSS"
 # ikisinin kesisiminde olmayanlari alir
 setdiff(a,b)
 ## [1] "SAS"
 #esit mi kontrolu
 setequal(a,b)
 ## [1] FALSE
 setequal(a,c)
 ## [1] TRUE
 #identical sıralarıyla esit olmali
 identical(a,b)
 ## [1] FALSE
 identical(a,a)
 ## [1] TRUE
String islemleri
 v <- c("ali", "mehmet", "veli", "irmak", "ismailaliali", "ali")</pre>
 #eslesme saptar
 str_detect(v, "ali")
 ## [1] TRUE FALSE FALSE FALSE TRUE TRUE
```

```
str_which(v, "ali")
## [1] 1 5 6
# her elemanda kaç eslesme var
str_count(v, "ali")
```

```
#bulundugu konumu gosterir
str_locate(v, "ali")
```

```
## [4,] NA NA
## [5,] 7 9
## [6,] 1 3
str_locate_all(v, "ali")
## [[1]]
## start end
```

```
## [1,] 1 3
##
## [[2]]
   start end
##
## [[3]]
   start end
##
## [[4]]
   start end
```

```
## [[5]]
## start end
## [1,] 7 9
## [2,] 10 12
##
## [[6]]
## start end
## [1,] 1 3
str_sub(v, 1, 3)
## [1] "ali" "meh" "vel" "ırm" "ism" "ali"
str_replace(v, "ali", "..")
```

"mehmet"

"veli"

str\_replace\_all(v, "ali", "..")

## [1] ".."

## [6] ".."

# eslesme indeksleri

## [1] 1 0 0 0 2 1

## start end ## [1,] 1 3 ## [2,] NA NA ## [3,] NA NA

```
## [1] ".."
                                                "ırmak"
                    "mehmet"
                                  "veli"
                                                              "ismail..ali"
## [6] ".."
```

"ırmak"

"ismail...."