

Practical 6: Construct Different Types of K-Shingles for Given Document

Code:

```
# Install necessary packages
install.packages("tm")
require("tm")
install.packages("devtools")

# Define function to read an integer and create shingles from a file
readinteger <- function() {
  n <- readline(prompt = "Enter value of k-1: ") # Prompt user for input
  k <- as.integer(n) # Convert input to integer
  u1 <- readLines("C:/Users/asif0/Documents/File1.txt") # Read in file
  Shingle <- 0 # Initialize variable for storing shingles
  i <- 0 # Initialize loop counter
  while (i < nchar(u1) - k + 1) { # Loop through file, creating shingles
    Shingle[i] <- substr(u1, start = i, stop = i + k) # Extract shingle
    # Print shingle to console
    print(Shingle[i])
    i <- i + 1 # Increment loop counter
  }
}

# Call readinteger function if running interactively
if (interactive()) {
  readinteger()
}
```

OUTPUT

Enter value of k-1: 4

character(0)

```
[1] "This "  
[1] "his i"  
[1] "is is"  
[1] "s is "  
[1] " is i"  
[1] "is is"  
[1] "s is "  
[1] " is a"  
[1] "is a "  
[1] "s a "  
[1] " a a"  
[1] "a a "  
[1] " a t"  
[1] " a te"  
[1] "a tes"  
[1] " test"  
[1] "test "  
[1] "est o"  
[1] "st of"  
[1] "t of "  
[1] " of o"  
[1] "of of"  
[1] "f of "  
[1] " of s"  
[1] "of sh"  
[1] "f shi"  
[1] " shin"  
[1] "shing"  
[1] "hingl"  
[1] "ingle"  
[1] "ngle "  
[1] "gle s"  
[1] "le sh"  
[1] "e shi"  
[1] " shin"  
[1] "shing"  
[1] "hingl"  
[1] "ingle"  
[1] "ngles"
```