```
mat <- matrix(3:12, nrow = 3, byrow = TRUE)
print("Original
                  Matrix:")
                                  print(mat)
transposed_mat <- t(mat) print("Transposed</pre>
Matrix:") print(transposed_mat) Output:
[1] "Original Matrix:"
   [,1] [,2] [,3] [,4] [1,]
3 4 5 6
[2,] 7 8 9 10
[3,] 11 12 3 4
[1] "Transposed Matrix:"
  [,1] [,2] [,3]
[1,] 3 7 11
[2,] 4 8 12
[3,] 5 9 3
[4,] 6 10 4
df \leftarrow data.frame(Player = c("Dhoni", "Jadeja"), Match1 = c(85, 90), Match2 = c(88, 92))
transposed df <- t(df) print(transposed df) Output:
[,1] [,2]
Player "Dhoni" "Jadeja"
Match1 "85" "90"
Match2 "88" "92"
library(tidyr) df <- data.frame(</pre>
 Student = c("Dhoni", "Jadeja"),
 Match1 = c(90, 85),
```

```
Match2 = c(95, 80)
long_df <- pivot_longer(df, cols = Match1:Match2, names_to = "Subject", values_to =</pre>
"Score") print(long_df)
Output
# A tibble: 4 x 3
 Student Subject Score
 <chr> <chr> <dbl>
1 Dhoni Match1 90
2 Dhoni Match2 95
3 Jadeja Match1 85 4 Jadeja Match2 80 library(data.table)
dt <- data.table(
 Names = c("Dhoni", "Jadeja"),
 Math = c(90, 85),
 Science = c(92, 88)
)
# Transpose only the numeric columns and set column names using the Names
column transposed_dt <- transpose(dt[, -1], make.names = FALSE)</pre>
setnames(transposed_dt, dt$Names) transposed_dt[, Subject := names(dt)[-1]]
setcolorder(transposed_dt, c("Subject", dt$Names))
print(transposed dt)
Output:
```

## Subject Dhoni Jadeja

1: Match1 90 85

2: Match2 92 88