

## EXPERIMENT-11

### MID RANGE:

#### AIM:

To write the program for central tendency and data dispersion measures.

#### PROGRAM:

```
names<-c("siri","mahi","chiru")
age<-c(23,24,25)
marks<-c(88,78,25)
df<-data.frame(names,age,marks)
mid range(df $age)
write.csv(df,"datafr.csv")
```

#### OUTPUT:

```
> source("~/active-rstudio-document", echo=TRUE)
> # Define the data
> names <- c("siri", "mahi", "chiru")
> age <- c(23, 24, 25)
> marks <- c(88, 78, 25)
> # Create a dataframe
> df <- data.frame(names, age, marks)
> # Function to calculate mid-range
> mid_range <- function(x) {
+   return((min(x) + max(x)) / 2)
+ }
> # Calculate and print the mid-range of the age column
> mid_range_value <- mid_range(df$age)
> print(paste("Mid-Range of Age:", mid_range_value))
[1] "Mid-Range of Age: 24"
> # Write dataframe to CSV
> write.csv(df, "datafr.csv", row.names = FALSE)
>
```

#### RESULT:

Thus the program for central tendency and data dispersion measures was executed successfully