

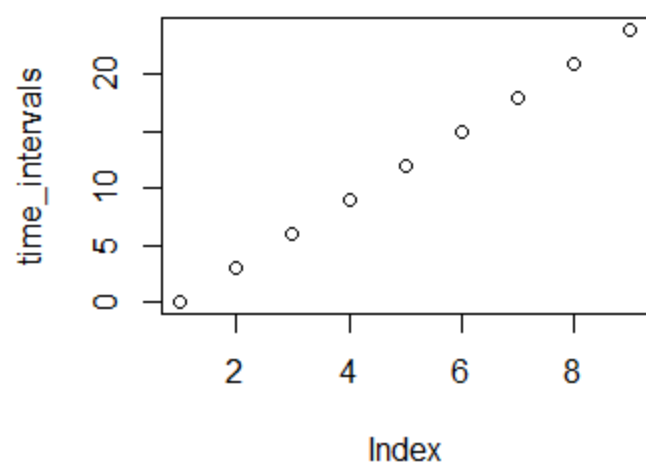
```
>
> 2+2
[1] 4
> exp(-2)
[1] 0.1353353
> log(100,base=10)
[1] 2
>
> runif(10)
[1] 0.11972338 0.60167759 0.11559555 0.51782025 0.27767130 0.70281038 0.09078638 0.63110940 0.35152966
[10] 0.33388469
> |
```

```
- -
> x=2
> x+x
[1] 4
> y=x+3
> print y
Error: unexpected symbol in "print y"
> print (y)
[1] 5
> s = "this is a car";
> print (s)
[1] "this is a car"
> |
```

---

```
>
> temp = c(30, 32, 31, 29, 28)
> temp
[1] 30 32 31 29 28
> temp[2]
[1] 32
> temp[4]
[1] 29
>
>
> sales_Q1 <- c(100, 150, 200)
> sales_Q2 <- c(120,180,240)
> total <- sales_Q1 + sales_Q2
> print(total)
[1] 220 330 440
> dif <- sales_Q1 - sales_Q2
> print(dif)
[1] -20 -30 -40
>
> grades <- c(85, 72, 90, 65, 88)
> result <- grades[grades > 80]
> print(result)
[1] 85 90 88
>
> time_intervals <- seq(0,24, by = 3)
> print(time_intervals)
[1] 0 3 6 9 12 15 18 21 24
> plot(time_intervals)
> plot(time_intervals)
Warning messages:
1: unable to open printer
2: opening device failed
> prices <- c(20,30,40,50)
> result <- prices[prices > 80]
> print(result)
numeric(0)
> |
```

---



```
> x <- c(5, 10, 15, 20)
> y <- c(1, 2, 3, 4)
>
> sum <- x + y
> sum
[1] 6 12 18 24
>
> sub <- x - y
> sub
[1] 4 8 12 16
> sub <- y - x
> sub
[1] -4 -8 -12 -16
>
> a <- c(2, 4, 6)
> b <- c(1, 3, 5)
> a
[1] 2 4 6
> b
[1] 1 3 5
>
> c <- a + b
> scalar <- c * 10
> scalar
[1] 30 70 110
> p <- c(100, 200, 300)
> q <- c(2, 4, 5)
>
> divide <- p/q
> divide
[1] 50 50 60
> m <- c(10, 20, 30)
> n <- c(3, 5, 7)
> remai <- m %% n
> remai
[1] 1 0 2
> v <- c(1, 2, 3, 4)
> power <- v^2
> power
[1] 1 4 9 16
> |
```

```

.
> data <- c(5, 10, 15, 20, 25, 30, 35)
> mean_data <- mean(data)
> mean_data
[1] 20
>
> data <- c(18, 22, 30, 40, 50)
> median_data <- median(data)
> median_data
[1] 30
>
> data <- c(5, 7, 10, 15, 20)
> sd_data <- sd(data)
> sd_data
[1] 6.107373
>
> data <- c(12, 18, 25, 30, 36)
> var_data <- var(data)
> var_data
[1] 90.2
>
>
> data <- c(3, 5, 7, 9, 11, 13, 15)
> quantiles_data <- quantile(data)
> quantiles_data
 0%  25%  50%  75% 100%
 3   6   9  12  15
>
>
> data <- c(100, 200, 300, 400, 500)
> summary_data <- summary(data)
> summary_data
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
   100    200    300    300    400    500
>
>
> data <- c(2, 4, 6, 8, 10, 12)
> iqr_data <- IQR(data)
> iqr_data
[1] 5
>
>
> data <- c(10, 20, 30, 40, 50, 60, 70)
> fivenum_data <- fivenum(data)
> fivenum_data
[1] 10 25 40 55 70
>
>

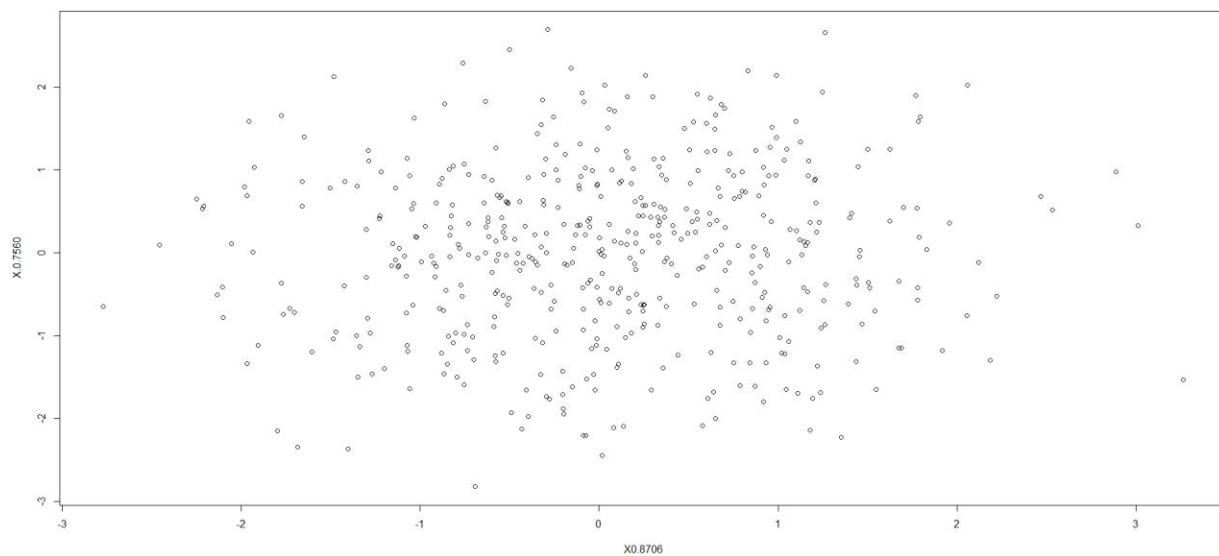
```

```
>
> data <- c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
> summary_data_extended <- summary(data)
> summary_data_extended
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  1.00   3.25   5.50   5.50   7.75   10.00
>
>
> data <- c(7, 8, 9, 10, 12, 14, 16)
> quantiles_specified <- quantile(data, probs = c(0.25, 0.5, 0.75))
> quantiles_specified
25%  50%  75%
8.5 10.0 13.0
> |
```

```

> getwd()
[1] "C:/Users/bit122.STUDENT/Documents"
> data <- read.table("D1.txt",header = TRUE)
> head(data)
  X0.8706 X0.7560
1  0.3308  0.1212
2 -1.3479 -1.4958
3  1.5479 -1.6462
4 -0.6166  0.1929
5 -0.6986 -1.2898
6 -1.4236 -0.3998
> summary(data)
      X0.8706      X0.7560
Min.   :-2.77120  Min.   :-2.819800
1st Qu.: -0.58525  1st Qu.: -0.683900
Median :  0.03170  Median :  0.039700
Mean    :  0.04942  Mean    :  0.005124
3rd Qu.:  0.72710  3rd Qu.:  0.685700
Max.    :  3.26620  Max.    :  2.689000
> plot(data$V1,data$V2)
Error in plot.window(...) : need finite 'xlim' values
In addition: Warning messages:
1: In min(x) : no non-missing arguments to min; returning Inf
2: In max(x) : no non-missing arguments to max; returning -Inf
3: In min(x) : no non-missing arguments to min; returning Inf
4: In max(x) : no non-missing arguments to max; returning -Inf
> plot(data$V1,data$V2)
Error in plot.window(...) : need finite 'xlim' values
In addition: Warning messages:
1: In min(x) : no non-missing arguments to min; returning Inf
2: In max(x) : no non-missing arguments to max; returning -Inf
3: In min(x) : no non-missing arguments to min; returning Inf
4: In max(x) : no non-missing arguments to max; returning -Inf
> v1 <- data$V1
> v1
NULL
> v1|

```





```
myscript.R x
Source on Save
1 # Load necessary library
2 library(ggplot2)
3 # Create a sample dataset
4 data <- data.frame(
5   Age = c(23, 45, 34, 25, 36, 50, 41),
6   Height = c(167, 175, 160, 162, 180, 170, 165),
7   weight = c(55, 70, 60, 58, 75, 68, 62)
8 )
9 # Perform analysis: Calculate summary statistics
10 summary_stats <- summary(data)
11 print("Summary Statistics:")
12 print(summary_stats)
13 # Generate a scatter plot of Age vs Height
14 ggplot(data, aes(x = Age, y = Height)) +
15   geom_point() +
16   labs(title = "Scatter Plot of Age vs Height", x = "Age", y = "Height")
17 # Generate a histogram of weight
18 ggplot(data, aes(x = weight)) +
19   geom_histogram(binwidth = 5, fill = "blue", color = "black") +
20   labs(title = "Histogram of weight", x = "weight", y = "Frequency")
21
22
23
24
25
26 |
```

