Matrix addition

```
> m1 <- matrix(c(1,2,3,4,5,6),nrow=2, ncol = 3)
> m2 <- matrix(c(6,5,4,3,2,1),nrow=2, ncol = 3)
> print(m1)
     [,1] [,2] [,3]
[1,]
        1
              3
                   5
[2,]
                   6
        2
              4
> print(m2)
     [,1] [,2] [,3]
[1,]
                   2
             4
        6
[2,]
        5
              3
                   1
> add<-m1+m2
> print(add)
     [,1] [,2] [,3]
[1,]
        7
              7
             7
                   7
        7
[2,]
```

Matrix subtraction

```
> m1 < -matrix(c(1,2,3,4,5,6),nrow=2,ncol=3)
> m2 <- matrix(c(6,5,4,3,2,1),nrow=2, ncol = 3)
> print(m1)
     [,1] [,2] [,3]
[1,]
              3
                   5
        1
[2,]
        2
             4
                   6
> print(m2)
     [,1] [,2] [,3]
[1,]
        6
              4
                   2
                   1
[2,]
        5
              3
> sub<-m1-m2
> print(sub)
     [,1] [,2] [,3]
[1,]
       -5
          -1
                   3
[2,]
                   5
       -3
             1
> |
```

Matrix multiplication

```
> m1 < -matrix(c(1,2,3,4),nrow=2,ncol=2)
> m2 < -matrix(c(5,6,7,8),nrow=2,ncol=2)
> print(m1)
     [,1] [,2]
[1,]
        1
              3
        2
[2,]
> print(m2)
     [,1] [,2]
[1,]
        5
[2,]
> mu1=m1%*%m2
> print(mul)
    [,1] [,2]
[1,]
       23
             31
[2,]
       34
             46
```

Display values and r installation

```
> name <- readline(prompt = "name ")
name age <- as.numeric(readline(prompt = "age"))
> print(name)
[1] "age <- as.numeric(readline(prompt = \"age\"))"
> print(age)
  [1] 25 30 35 40 45 50 55 60 65 70
> cat("R Version:", R.version.string, "\n")
R Version: R version 4.4.2 (2024-10-31 ucrt)
> |
```

Store object in memory

```
. VOLDTON, IN VOLDTON 1. 1.E (EVET TO DE MOLE)
objects <- ls()</pre>
print(objects)
 [1] "a"
                                       "a.function"
                                                                         "activity_data"
 [4] "add"
                                       "after"
                                                                         "after_five"
 [7] "age"
                                       "Amount"
                                                                         "andval"
[10] "apple_col"
[13] "before"
                                       "array"
                                                                         "b"
                                       "c"
                                                                         "charval"
[15] "DETORE"
[16] "chord_data"
[19] "cosval"
[22] "data"
[25] "east_sales"
[28] "exp"
                                       "class"
                                                                         "company"
                                       "cumulative_sales_data"
                                                                         "cumulative_sum"
                                                                         "div"
                                       "displayArray"
                                       "emp_data"
                                                                         "exam_data"
                                                                         "fig"
                                       "factor_apple"
[31] "fig_co2_vs_humidity"
                                       "fig_co2_vs_temp"
                                                                         "fig_rating_vs_age"
[34] "fig_rating_vs_price"
                                       "fig_scatter"
                                                                         "fig_science_vs_attendan
[37] "fig science vs math"
                                       "fig stock vs market"
                                                                         "fig stock vs volume"
```

Sum

```
> a <- seq(20, 50)
> print(a)
  [1] 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49
[31] 50
> means<- mean(seq(20, 60))
> print(means)
[1] 40
> sums <- sum(seq(51, 91))
> print(sums)
[1] 2911
```