

DS_Mod1_Miscellaneous

```
customer_churn<-read.csv("C:/Users/INTELLIPAAT/Desktop/customer_churn.csv")
```

```
bird <- c("eagle","parrot","pigeon")
class(bird)

## [1] "character"
```

```
numbers <- c(1,9)
numbers

## [1] 1 9

class(numbers)

## [1] "numeric"
```

```
decima <- c(23.423, 90.31, 1.31)
decima

## [1] 23.423 90.310 1.310

class(decima)

## [1] "numeric"
```

```
logit100 <-c(TRUE,FALSE,T,F,F,F)
logit100

## [1] TRUE FALSE TRUE FALSE FALSE FALSE

class(logit100)

## [1] "logical"
```

```
list(1,"nirvana",TRUE) -> mixbag
mixbag
```

```
## [[1]]
## [1] 1
##
## [[2]]
## [1] "nirvana"
##
## [[3]]
## [1] TRUE

class(mixbag)

## [1] "list"

class(mixbag[[1]])

## [1] "numeric"

class(mixbag[[2]])

## [1] "character"

class(mixbag[[3]])

## [1] "logical"

mixbag

## [[1]]
## [1] 1
##
## [[2]]
## [1] "nirvana"
##
## [[3]]
## [1] TRUE
```

```
numbers

## [1] 1 9

matrix(data=numbers, nrow=3, ncol=3) -> mat1

## Warning in matrix(data = numbers, nrow = 3, ncol = 3): data length [2] is
## not a sub-multiple or multiple of the number of rows [3]

mat1

##      [,1] [,2] [,3]
## [1,]    1    9    1
## [2,]    9    1    9
## [3,]    1    9    1
```

```
matrix(data=numbers, nrow=3, ncol=3, byrow=T) ->mat1

## Warning in matrix(data = numbers, nrow = 3, ncol = 3, byrow = T): data
## length [2] is not a sub-multiple or multiple of the number of rows [3]

mat1

##      [,1] [,2] [,3]
## [1,]    1    9    1
## [2,]    9    1    9
## [3,]    1    9    1
```

```
alpha <- c('a','b','c','d','e','f')
matrix(data=alpha, nrow=2, ncol=3) ->mat_alpha
mat_alpha

##      [,1] [,2] [,3]
## [1,] "a"  "c"  "e"
## [2,] "b"  "d"  "f"

matrix(data=alpha, nrow=2, ncol=3) ->mat_alpha
mat_alpha

##      [,1] [,2] [,3]
## [1,] "a"  "c"  "e"
## [2,] "b"  "d"  "f"

mat_alpha[1,2]

## [1] "c"

mat_alpha[2,3]

## [1] "f"
```

```
num1<-c(1:9)
num2<-c(10:18)
array(data=c(num1,num2), dim=c(3,3,2))-> array1
array1

## , , 1
##
##      [,1] [,2] [,3]
## [1,]    1    4    7
## [2,]    2    5    8
## [3,]    3    6    9
##
```

```
## , , 2
##
##      [,1] [,2] [,3]
## [1,]   10   13   16
## [2,]   11   14   17
## [3,]   12   15   18

array1[3,2,2]

## [1] 15

array1

## , , 1
##
##      [,1] [,2] [,3]
## [1,]    1    4    7
## [2,]    2    5    8
## [3,]    3    6    9
##
## , , 2
##
##      [,1] [,2] [,3]
## [1,]   10   13   16
## [2,]   11   14   17
## [3,]   12   15   18

array1[2,2,1]

## [1] 5

array1

## , , 1
##
##      [,1] [,2] [,3]
## [1,]    1    4    7
## [2,]    2    5    8
## [3,]    3    6    9
##
## , , 2
##
##      [,1] [,2] [,3]
## [1,]   10   13   16
## [2,]   11   14   17
## [3,]   12   15   18
```