title: "First Matrix" author: "Pinak Nayak" output: pdf_document

```r
# Matrices----


# rbind() -- row bind
# cbind() -- column bind


my.data <- 1:20

A <- matrix(my.data, 4, 5)
A
```

```
##      [,1] [,2] [,3] [,4] [,5]
## [1,]    1    5    9   13   17
## [2,]    2    6   10   14   18
## [3,]    3    7   11   15   19
## [4,]    4    8   12   16   20
```

```r
B <- matrix(my.data, 4, 5, byrow=T)
B
```

```
##      [,1] [,2] [,3] [,4] [,5]
## [1,]    1    2    3    4    5
## [2,]    6    7    8    9   10
## [3,]   11   12   13   14   15
## [4,]   16   17   18   19   20
```

```r
# Get to 10
B[2,5]
```

```
## [1] 10
```

```r
#rbind

r1 <- c("I", "am" , "happy")
r2 <- c("what" ,"a", "day")
r3 <- c(1,2,3)
C <- rbind(r1,r2,r3)
C
```

```
##    [,1]   [,2] [,3]
## r1 "I"    "am" "happy"
## r2 "what" "a"  "day"
## r3 "1"    "2"  "3"
```

```r
#cbind
D <- cbind(r1,r2,r3)
D
```

```
##       r1      r2     r3
## [1,] "I"     "what" "1"
## [2,] "am"    "a"    "2"
## [3,] "happy" "day"  "3"
```