

ITA0497-STATISTICS OF R-PROGRAMMING

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prints the square of each number from 1 to a

```
[1] 25
> num<-function(a)
+ {
+   for(i in 1:a)
+   {
+     b=i^2
+     print(b)
+   }
+ }
> num(5)
[1] 1
[1] 4
[1] 9
[1] 16
[1] 25
give> |
```

prints each element of the array.

```
> array <- function(arr) {  
+   for (num in arr) {  
+     print(num)  
+   }  
+ }  
> numbers <- c(10, 20, 30, 40, 50)  
> array(numbers)  
[1] 10  
[1] 20  
[1] 30  
[1] 40  
[1] 50
```

accessing specific elements of a vector and filtering elements in R

```
> x<-c(10,20,30)  
> print(x[2])  
[1] 20  
>  
>  
> x<-c(1,2,3,4,5,6)  
> print(x[x>3])  
[1] 4 5 6  
> |
```

print the matrix before and after naming the rows and columns.

```

> a<-matrix(c(1,2,3,4,5,6,7,8,9),nrow=3,ncol=3,byrow=TRUE)
> print(a)
      [,1] [,2] [,3]
[1,]    1    2    3
[2,]    4    5    6
[3,]    7    8    9
> rownames(a)<-c("a","b","c")
> colnames(a)<-c("d","e","f")
> print(a)
  d e f
a 1 2 3
b 4 5 6
c 7 8 9

```