# **MDA102-Statistical** meth

Day 7, 06 July 202 6.30 AM – 8.30 Al Dr Sharon Varghes

#### **MISSION**

CHRIST is a nurturing ground for an individual's holistic development to make effective contribution to the society in a dynamic environment

VISION

## Conditional statements -Contd...

Which()

```
which (condition) #returns position
met
x<-c(1,2,3,4)
which(x>2)
[1] 3 4
x[which(x>2)]
[1] 3 4
```

### Conditional statements -Contd...

```
employees<-c("jack", "Jill")
salary<-c(89000,75000)
d<-data.frame(employees, salary, s
FALSE)
d$costly<-ifelse(d$salary>80000,
d
   employees salary costly
1   jack 89000   1
2   Jill 75000   0
```

## Conditional statements -Contd...

```
which (d$salary>80000) #returns re
condition in the case of data fr
[1] 1
d[which(d$salary>80000),]
employees salary costly
1 jack 89000 1
```

#### **Conditional statements –Contd...**

switch() - to excecute one of many statements bas switch (expression, statement1,, st test<-1#executes statement 1 switch (test, mean (d\$salary), media y)) # executes statement 1 [1] 82000 test<-2#executes statement 2 switch (test, mean (d\$salary), media y)) # executes statement 2 [1] 82000 test<-3 switch (test, mean (d\$salary), media y)) # executes statement 3 [1] 9899.495

# loops

```
for - it is a finite loop -syntax is
           for (i in 1:10) {
             Do this
           }
        illustration
           for (i in 1:10) {
             print(i)
           [1]
               1
           [1] 2
           [1] 3
           [1] 4
           [1] 5
           [1] 6
           [1] 7
           [1] 8
           [1] 9
           [1] 10
```

```
for (num in x) {
  square<-num^2
  print(square)
}
[1] 16
[1] 25
[1] 64
[1] 81
x<-c('Joe', 'Johan', 'Abi')</pre>
for (1 in x) {
 print(1)
}
[1] "Joe"
[1] "Johan"
[1] "Abi"
```

## Loops – contd...