In [1]:

```
                                #Q1 vector add, sub ,divide , multiply
a<-c(1,2,3,4)
b<-c(1,3,4,5)
a+b

```

2 5 7 9

In [2]:

```
a<-c(1,2,3,4)
b<-c(1,3,4,5)
a-b
```

0 -1 -1 -1

In [3]:

```
a<-c(1,2,3,4)
b<-c(1,3,4,5)
a*b
```

1 6 12 20

In [4]:

```
a<-c(1,2,3,4)
b<-c(1,3,4,5)
a/b
```

1 0.666666666666667 0.75 0.8

In [1]:

```
                                #Q2 calculate multiplication table
num=as.integer(readline(prompt="Enter a number"))
for(i in 1:10)
    {
    print(paste(num,'x',i,'=',num*i))
}
```

```
Enter a number10
[1] "10 x 1 = 10"
[1] "10 x 2 = 20"
[1] "10 x 3 = 30"
[1] "10 x 4 = 40"
[1] "10 x 5 = 50"
[1] "10 x 6 = 60"
[1] "10 x 7 = 70"
[1] "10 x 8 = 80"
[1] "10 x 9 = 90"
[1] "10 x 10 = 100"
```

In [21]:

```
                                #Q3 sort list asc and dsc
a<-list('Ram','Sham','Riya','Rina','Amol')

b<-unlist(a)
sort(b)
```

5
'Amol'
1
'Ram'
4
'Rina'
3
'Riya'
2
'Sham'

In [5]:

```
a<-list('Ram','Sham','Riya','Rina','Amol')

b<-unlist(a)
c=sort(b,decreasing=TRUE)
c
```

'Sham' 'Riya' 'Rina' 'Ram' 'Amol'

In [9]:

```
                                    #Q4 list employee operations
#Display
emp<-list('Pradnya','Pratiksha','Aarti','Akanksha')
names(emp)=c(1,2,3,4)
emp

```

$`1`
'Pradnya'
$`2`
'Pratiksha'
$`3`
'Aarti'
$`4`
'Akanksha'

In [8]:

```
#add employee
emp[5]<-'Pritam'
emp
```

$`1`
'Pradnya'
$`2`
'Pratiksha'
$`3`
'Aarti'
$`4`
'Akanksha'
[[5]]
'Pritam'

In [20]:

```
#remove third
emp<-list('Pradnya','Pratiksha','Aarti','Akanksha')
emp[3]<-NULL
emp
```

1. 'Pradnya'
2. 'Pratiksha'
3. 'Aarti'

In [ ]:

```

```