

VECTOR PROGRAMS

DATATYPE

```
v1 <- c(1,2,3,4,5)
print(num)
print(typeof(v1))
v2 <- c('a','b','c')
print(v2)
print(typeof(v2))
```

MENU-DRIVEN

```
v1 <- c(1,2,3,4,5)
v2 <- c(1,2,3,4,5)
a <- readline("Enter value :- ")
if(a==1){
  print(v1+v2)
}
else if(a==2){
  print(v1-v2)
}
else if(a==3){
  print(v1*v2)
}
else
{
  print(v1/v2)
}
```

FUNCTIONS

```
v1<-c(1,2,3,4,5)
print(sum(v1))
print(mean(v1))
print(prod(v1))
print(max(v1))
print(min(v2))
print(sort(v1))
print(sort(v1,decreasing = TRUE))
```

SEARCH ELEMENT

```
v1<-c("a","b","c","d")  
a<-readline("Enter value to search:- ")  
print(grep(a,v1))
```

ROWS/COLUMNS

```
v1<-c(1,2,3,4,5)  
v2<-c(1,2,4,5,7)  
v3<-data.frame(v1,v2)  
print(v3)
```

COMBINE VECTORS

```
v1<-c(1,2,3,4,5)  
v2<-c(1,2,4,5,7)  
v3 <-c(v1,v2)  
print(v3)
```

UNION/INTERSECTION

```
v1<-c(1,2,3,4,5)  
v2<-c(1,2,4,5,7)  
v3 <-union(v1,v2)  
v4<-intersect(v1,v2)  
print(v3)  
print(v4)
```

LIST PROGRAMS