Experiment No.6

- **Code:-**

```
rows=c("r1","r2")

cols=c("c1","c2","c3","c4")

M=matrix(c(2:9),nrow=2,byrow=TRUE,dimnames=list(rows,cols))

print("Original matrix:")

print(M)

output=as.vector(M)

print("1D array :")

print(output)
```

- **Output:-**

```
"Original matrix:"
 print(M)
 c1 c2 c3 c4
r1  2  3  4  5
r2  6  7  8  9
"1D array :"
2 6 3 7 4 8 5 9
```

- **Code:-**

```
data1 <- c(1,2,3,4,5,6)

data2 <- c(60, 18, 12, 13, 14, 19)

result <- array(c(data1, data2), dim = c(4,2,3))

print(result)
```

- **Output:-**

```
, , 1

    [,1] [,2]
[1,]   1   5
[2,]   2   6
[3,]   3  60
[4,]   4  18
```

```
, , 2

     [,1] [,2]
[1,]  12   1
[2,]  13   2
[3,]  14   3
[4,]  19   4

, , 3

     [,1] [,2]
[1,]   5   12
[2,]   6   13
[3,]  60   14
[4,]  18   19
```