```
In [1]: a = matrix(c(7,2,9,4,12,13),nrow=2,ncol=3,byrow = FALSE)
        b = matrix(c(1,2,3,7,8,9,12,13,14,19,20,21),nrow=3,ncol=4,byrow = FALSE)
        a%*%b
```

61 229 369 565

49 163 258 391

```
In [2]: Data_Frame = data.frame (
          name = c("Peter", "Amy","Ryan","Gary","Michelle"),
          salary= c(623.30,515.20,611.00,729.00,843.25)
        )
        Data_Frame
```

| name	salary
Peter	623.30
Amy	515.20
Ryan	611.00
Gary	729.00
Michelle	843.25

```
In [3]: New_Col_DF = cbind(Data_Frame,department = c("Finance", "Language","Economics","English","Art")
        )
        New_Col_DF
```

name	salary	department
Peter	623.30	Finance
Amy	515.20	Language
Ryan	611.00	Economics
Gary	729.00	English
Michelle	843.25	Art

```
In [4]: New_Col_DF[c(1,3,5),c(2,3)]
```

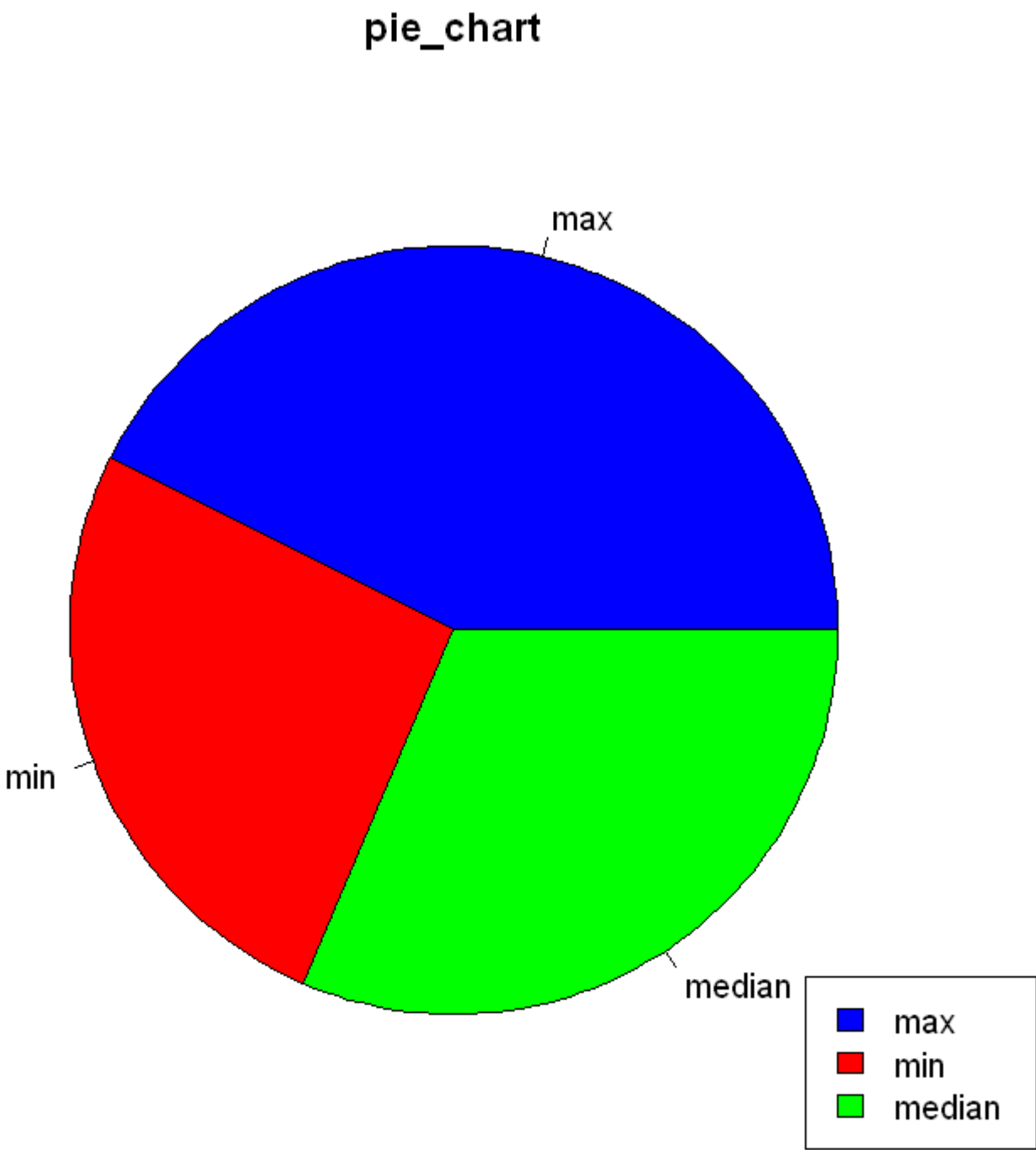|	salary	department
1	623.30	Finance
3	611.00	Economics
5	843.25	Art

```
In [5]: barplot(New_Col_DF[c(1,4,5),c(2)],names.arg = New_Col_DF[c(1,4,5),c(1)],col="red")
```
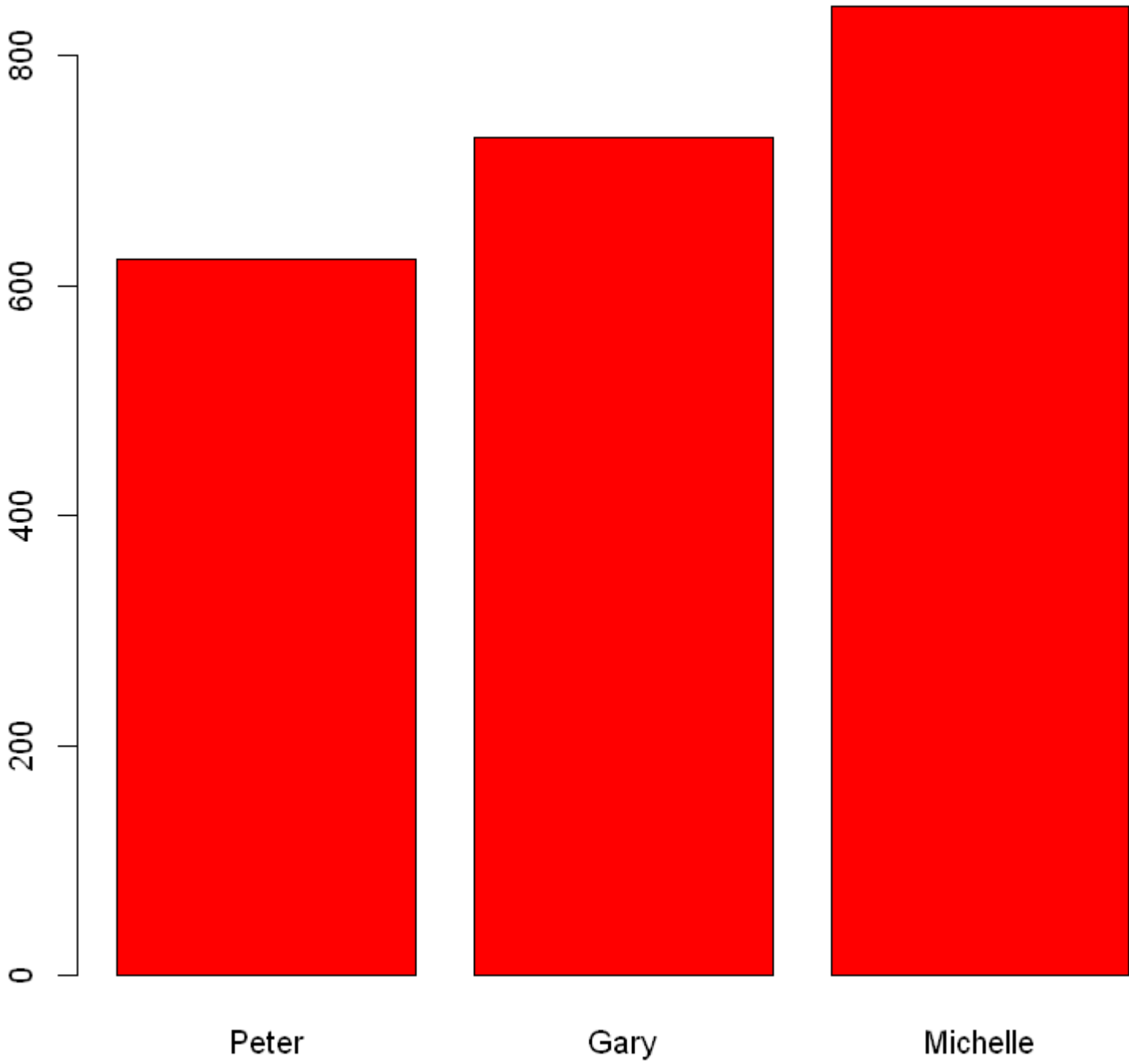


```
In [6]: x= max(New_Col_DF$salary)
        y=min(New_Col_DF$salary)
        z=median(New_Col_DF$salary)
        data=c(x,y,z)
        data
```

1. 843.25
2. 515.2
3. 623.3

```
In [7]: mylabel = c("max","min","median")
        colors = c("blue","red","green")
        pie(data,label = mylabel,main = "pie_chart", col = colors)
        legend("bottomright",mylabel,fill=colors)
```

pie_chart


```
In [ ]:
```