

CSA1618 DWDM-DE

EXPERIMENT-20

MULTIPLE REGRESSION:

AIM:

To write the program for the multiple regression.

PROGRAM:

```
Input <- diabetes[,c("Age", "BloodPressure", "Glucose")]  
Model <- lm(Age~ BloodPressure+Glucose,data=input)  
Print(model)
```

OUTPUT:

```
> print(diabetes)  
  
call:  
lm(formula = Age ~ BloodPressure + Glucose, data = input)  
  
Coefficients:  
  (Intercept)   BloodPressure      Glucose  
    14.33937      0.12399      0.08547  
  
> |
```

```
A<- coef(model)[1]  
Print(A)
```

OUTPUT:

```
> print(A)  
(Intercept)  
    14.33937  
  
> |
```

```
xBloodPressure<- coef(model)[2]  
yGlucose<- coef(model)[3]  
print(xBloodPressure)  
print(yGlucose)
```

OUTPUT:

```
> print(yGlucose)
Glucose
0.08547277
>
```

$y = A + x_{\text{BloodPressure}} + y_{\text{Glucose}}$

`print(y)`

OUTPUT:

```
>
> print(y)
(Intercept)
14.54883
>
```

RESULT:

Thus the multiple regression program was executed successfully.