

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  
>
```