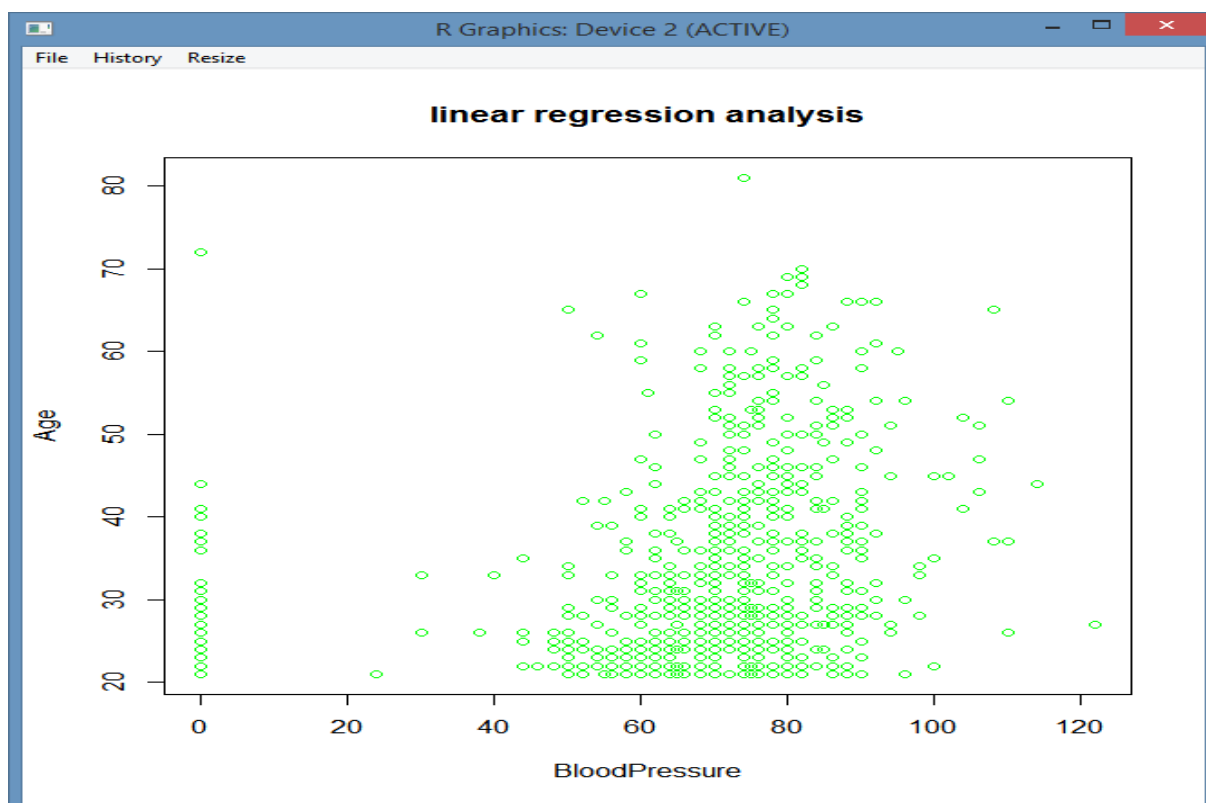


## Experiment 4: Regression Analysis using R Tool

output: linear regression analysis



```
Console ~/ 
6: In title(...) : "abline" is not a graphical parameter
> A<-data.frame(diabetes$Age)
> result<-predict(relation,A)
> print(result)
```

1	2	3	4	5	6	7	8	9
75.71244	68.22204	68.61627	64.27972	69.01050	67.82781	66.25088	67.43358	76.89514
10	11	12	13	14	15	16	17	18
77.28937	67.82781	69.40474	78.47207	79.26053	76.10668	68.61627	68.22204	68.22204
19	20	21	22	23	24	25	26	27
69.01050	68.61627	66.64511	75.71244	72.16436	67.43358	76.10668	72.16436	72.95282
28	29	30	31	32	33	34	35	36
64.67395	78.47207	70.98166	79.65476	67.03935	64.67395	67.03935	73.74129	69.01050
37	38	39	40	41	42	43	44	45
69.79897	74.13552	66.64511	78.07783	66.25088	70.58743	74.92398	77.28937	71.77013
46	47	48	49	50	51	52	53	54
65.85665	67.43358	64.67395	68.22204	65.46242	64.67395	66.25088	67.82781	78.86630

```
Console ~/ 
71.37589 76.50091 66.25088 82.02015 64.67395 72.95282 69.01050 80.83746 66.64511
766 767 768
67.82781 74.52975 65.06819
> input<-diabetes[,c("Age","BloodPressure","Glucose")]
> model<-lm(Age~BloodPressure+Glucose,data = input)
> print(model)
```

Call:  
lm(formula = Age ~ BloodPressure + Glucose, data = input)


Coefficients:  
(Intercept)    BloodPressure        Glucose  
     14.33937            0.12399           0.08547

```
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Call:  
lm(formula = Age ~ BloodPressure + Glucose, data = input)

Coefficients:  
(Intercept)    BloodPressure        Glucose  
     14.33937            0.12399           0.08547

```
> A<-coef(model)[1]
> print(A)
(Intercept)
     14.33937
>
```

```
Console ~/ 
> print(xBloodPressure)
BloodPressure
0.1239891
> xBloodPressure<-coef(model)[2]
> yGlucose<-coef(model)[3]
> print(xBloodPressure)
BloodPressure
0.1239891
> print(yGlucose)
Glucose
0.08547277
> y=A+xBloodPressure+xGlucose
> print(y)
(Intercept)
14.54883
> |
```