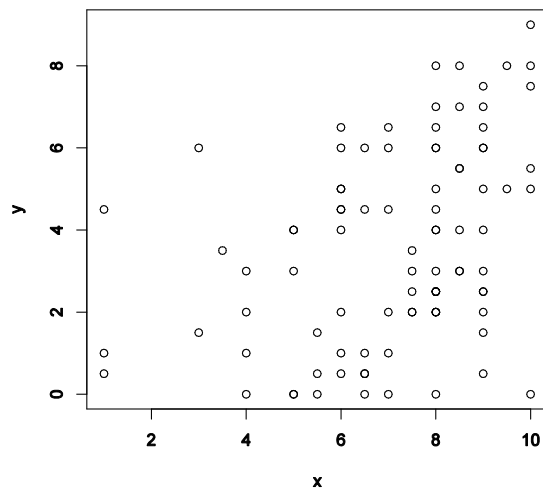HỒI QUY VÀ TƯƠNG QUAN

```
> names(bangdiem)
[1] "STT"     "DQT"     "THI"     "TKHP"     "Danhgia" "Diemhechu"
> x<-bangdiem$DQT
> y<-bangdiem$THI
```

1. Hệ số tương quan mẫu

```
> cor(x,y)
[1] 0.3817531
> plot(x,y)
```


2. Hồi quy tuyến tính

Hàm lm
```
lm(formula, data, subset, weights, na.action,
method = "qr", model = TRUE, x = FALSE, y = FALSE, qr = TRUE,
singular.ok = TRUE, contrasts = NULL, offset, ...)
```
Hàm predict
```
Predict(object,newdata,interval,level)
```
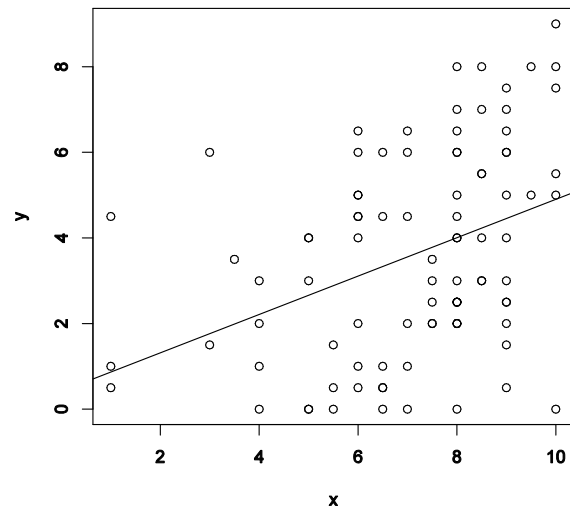
```
> lm(y~x)

Call:
lm(formula = y ~ x)

Coefficients:
```

```
(Intercept)        x
   0.4170    0.4484


> plot(x,y)
> hoiquy<-lm(y~x)
> abline(hoiquy)
```


Giá trị dự báo

```
> predict(hoiquy,newdata=data.frame(x=8),interval='prediction',level=0.95)
     fit       lwr      upr
1 4.004077 -0.4741652 8.48232
```