```
89
90   #prostate cancer
91   ps=read.csv(file.choose(),stringsAsFactors = TRUE)
92   ps=ps[3:9]
93   View(ps)
94   str(ps)
95   summary(ps)
96   cor_mat=cor(ps)
97   corrplot(cor_mat,method="circle")
98   y=ps$area
99   x=ps$perimeter
100  relation=lm(y~x)        #lm()->LINEAR MODEL
101  summary(relation)
102  a=data.frame(x=70)
103  result=predict(relation,a)
104  print(result)
105
106
107
108
94:8      # (Untitled)
```

Console   Terminal ×   Background Jobs ×

R 4.3.2 · ~/

```
    Min      1Q   Median      3Q      Max
-463.94   -29.04    -2.50   24.86   183.10

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) -573.4742    29.1907   -19.65   <2e-16 ***
x             13.1882     0.2931    45.00   <2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 69.04 on 98 degrees of freedom
Multiple R-squared:  0.9538,    Adjusted R-squared:  0.9534
F-statistic:  2025 on 1 and 98 DF,  p-value: < 2.2e-16

> a=data.frame(x=70)
> result=predict(relation,a)
> print(result)
    1
349.7
>
```