```
> training_set <- subset(diabet, di == TRUE)</pre>
> testing_set <- subset(diabet, di == FALSE)</pre>
> model2 <- glm(Is_Diabetic~.,data = training_set, family = "binomial" )</pre>
> summary(model2)
Call:
glm(formula = Is Diabetic ~ ., family = "binomial", data = training set)
Deviance Residuals:
   Min
             1Q Median
                                      Max
                               3Q
-2.7124 -0.6772 -0.3820 0.6426
                                   2.5654
Coefficients:
                      Estimate Std. Error z value Pr(>|z|)
                                0.906286 -10.213 < 2e-16 ***
(Intercept)
                     -9.256065
No.of times pregnant 0.102536
                                0.040193 2.551
                                                   0.0107 *
glucose conc
                     0.044270
                                0.004978 8.892 < 2e-16 ***
blood pressure
                     -0.014853
                                0.007046 -2.108
                                                   0.0350 *
skin_fold_thickness
                     0.007975
                                0.008803
                                          0.906
                                                   0.3649
X2.Hour serum insulin -0.003353
                                0.001256 -2.669
                                                   0.0076 **
BMI
                      0.089144
                                          4.699 2.61e-06 ***
                                0.018969
Diabetes_pedigree_fn 0.832683
                                0.385883 2.158
                                                   0.0309 *
                                                   0.1675
Age
                      0.016337
                                0.011838 1.380
---
Signif. codes: 0 (***, 0.001 (**, 0.01 (*, 0.05 (., 0.1 ( , 1
(Dispersion parameter for binomial family taken to be 1)
    Null deviance: 696.28 on 537 degrees of freedom
Residual deviance: 477.81 on 529 degrees of freedom
AIC: 495.81
Number of Fisher Scoring iterations: 5
```

```
0.262659210 0.63592/310 0.083913125 0.018291855 0.2/8908246 0.460242613 0.36800///9
        544
                    547
                                548
                                             549
                                                         550
                                                                     555
                                                                                 558
0.082688838 0.971834246 0.288160295 0.737259113 0.863623819 0.079544359 0.255051067
        559
                    563
                                566
                                            567
                                                         568
                                                                     572
                                                                                 573
0.657040450 0.097856948 0.074336739 0.177372592 0.121184664 0.105178813 0.190143783
                    584
                                585
                                             586
                                                         592
0.197598224 0.300816391 0.128383805 0.044441626 0.218939096 0.456858889 0.115109418
        595
                    601
                                602
                                            606
                                                         610
                                                                     620
                                                                                 625
0.373725442 0.084169779 0.159413257 0.416381827 0.045787432 0.356585917 0.119181657
                    630
                                            633
                                                         634
        629
                                632
                                                                     639
                                                                                 643
0.419295213 0.056979057 0.098314291 0.115953340 0.093105281 0.370788985 0.567916205
        648
                    649
                                656
                                            657
                                                         661
                                                                     665
0.856621936 0.478403830 0.377892659 0.045999967 0.767874705 0.433313164 0.675953761
        680
                    687
                                691
                                            692
                                                         693
                                                                     695
0.041099036 0.187870158 0.193722286 0.889127510 0.450576945 0.035723663 0.184281850
        699
                    700
                                704
                                             708
                                                         710
                                                                     712
                                                                                 716
0.282552044 0.618358561 0.733957792 0.183154409 0.136900525 0.371756794 0.901290517
        717
                    718
                                719
                                             720
                                                         724
                                                                     730
                                                                                 736
0.827735361 0.178627453 0.169210407 0.264069958 0.360479892 0.069752624 0.193618557
        741
                    748
                                750
                                            751
                                                         754
0.730420985 0.275248213 0.677259870 0.564626433 0.636519476 0.471662919
> table(Actualvalues = testing set$Is Diabetic, Predictedvalues = predi>0.5)
            Predictedvalues
Actualvalues FALSE TRUE
               127
                37
                     43
```

