####The following is the result of the summary(fit) command which is basically calculating the regression effect of all the other factors on temperature alone.

```
Deviance Residuals:
   Min       1Q   Median       3Q      Max
-2.9142  -0.6685  -0.0365   0.6348   3.1783

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept) 147.769883  19.228832   7.685 1.48e-13 ***
Dpavg         0.919480   0.025179  36.517  < 2e-16 ***
Hmavg        -0.254211   0.006712 -37.876  < 2e-16 ***
SLPavg       -0.121575   0.018665  -6.514 2.48e-10 ***
VISavg        0.001297   0.232493   0.006  0.99555
Wnavg        -0.051511   0.017044  -3.022  0.00269 **
---
Signif. codes:  0  0.001  0.01  0.05  0.1  1

(Dispersion parameter for gaussian family taken to be 0.9484188)

   Null deviance: 3048.75  on 364  degrees of freedom
Residual deviance:  340.48  on 359  degrees of freedom
 (1 observation deleted due to missingness)
AIC: 1024.4

Number of Fisher Scoring iterations: 2
```

####The result of the following command (i.e. figuring out the confidence interval) :

```
> confint(fit)
Waiting for profiling to be done...
                  2.5 %       97.5 %
(Intercept) 110.08206469 185.45770219
Dpavg         0.87012895   0.96883048
Hmavg        -0.26736500  -0.24105603
SLPavg       -0.15815756  -0.08499265
VISavg       -0.45438159   0.45697596
Wnavg        -0.08491617  -0.01810501
```

I am sure this thing that is coming up now is pretty decent predicted values of the temperature because of the combined effect of all the factors on the avg. temp.

[***All the factors considered in the data mining(analysis) are the average values considered]

```
  predict(lm,data.frame=a)
       1        2        3        4        5        6        7
8
27.27789 27.54526 27.80706 27.41088 27.63769 27.44686 27.23813
27.46475
       9       10       11       12       13       14       15
16
27.70926 27.91003 27.86391 28.03030 28.00684 27.69971 27.71244
27.67487
      17       18       19       20       21       22       23
24
27.76949 27.88618 28.00346 27.62775 27.68699 27.31268 27.27431
27.40948
      25       26       27       28       29       30       31
32
27.74007 27.62080 27.57110 27.23575 27.34249 27.24071 27.32758
27.30433
      33       34       35       36       37       38       39
40
27.46077 27.32361 27.36575 27.71184 27.67705 27.20076 27.23813
27.44089
      41       42       43       44       45       46       47
48
27.75160 27.37728 27.27789 27.30771 27.71263 27.51246 27.37490
27.19499
      49       50       51       52       53       54       55
56
27.25562 27.21964 27.20573 27.28087 27.35780 27.37728 27.49516
27.80567
      57       58       59       60       61       62       63
64
27.62139 27.42539 27.37470 27.36973 27.14033 27.26795 27.34647
27.51842
      65       66       67       68       69       70       71
72
27.56354 27.24310 27.48403 27.27650 26.91490 26.81233 26.84791
26.94253
      73       74       75       76       77       78       79
80
27.34985 27.71522 27.52896 27.13774 27.13913 27.47926 27.52140
28.05554
      81       82       83       84       85       86       87
88
27.72814 27.19340 27.33514 27.47667 27.37231 27.63471 27.72019
27.50888
```

```
     89        90        91        92        93        94        95
96
27.43195 26.96480 26.73520 26.91311 26.91252 26.87535 26.91649
27.00615
     97        98        99       100       101       102       103
104
27.14768 27.55261 26.97971 26.90417 26.67636 26.76760 27.08805
27.25702
    105       106       107       108       109       110       111
112
27.38861 27.45322 27.38623 27.41803 27.21070 28.10186 28.04719
27.96012
    113       114       115       116       117       118       119
120
27.65320 27.23575 27.24469 27.62219 27.31327 27.66711 27.84682
27.98497
    121       122       123       124       125       126       127
128
28.00982 28.06449 27.80865 28.01499 28.06210 27.99750 27.77883
27.58501
    129       130       131       132       133       134       135
136
27.36635 27.70429 27.96768 28.15394 28.00744 28.01499 28.06946
28.03725
    137       138       139       140       141       142       143
144
27.98756 27.93547 27.98756 28.07443 27.91301 28.03984 27.96271
27.91540
    145       146       147       148       149       150       151
152
27.84582 27.83091 27.87325 27.91162 27.94044 27.97006 27.96509
27.96271
    153       154       155       156       157       158       159
160
28.06707 28.00247 27.94541 27.89810 27.80865 27.92295 27.86828
27.98497
    161       162       163       164       165       166       167
168
27.92534 28.03964 28.04958 28.04461 28.02473 27.95774 27.89115
27.93945
    169       170       171       172       173       174       175
176
27.84344 27.79970 27.90804 27.88081 27.91401 27.93031 27.97265
28.03725
    177       178       179       180       181       182       183
184
28.11319 28.11895 28.08934 28.07204 28.17283 28.02513 28.03725
28.21378
    185       186       187       188       189       190       191
```

192
28.05077 28.04222 28.12770 28.18992 28.16686 28.27838 28.23465
28.26924
    193   194   195   196   197   198   199
200
28.23703 28.26288 28.15692 28.17640 28.23763 28.18296 28.28713
28.29488
    201   202   203   204   205   206   207
208
28.30860 28.33782 28.31774 28.21378 28.44337 28.36287 28.32152
28.30562
    209   210   211   212   213   214   215
216
28.21716 28.23862 28.25592 28.19628 28.20125 28.19887 28.16646
28.17402
    217   218   219   220   221   222   223
224
28.16646 28.21616 28.16388 28.24340 28.14162 28.15573 28.05972
28.08934
    225   226   227   228   229   230   231
232
28.05972 28.12671 28.14162 28.11935 28.50182 28.02970 27.99253
27.99253
    233   234   235   236   237   238   239
240
28.09927 27.95774 28.00008 27.94283 28.00982 28.17899 28.17978
28.33643
    241   242   243   244   245   246   247
248
28.33285 28.33802 28.23107 28.15156 28.10683 28.26685 28.17740
28.09450
    249   250   251   252   253   254   255
256
28.08934 28.10941 28.21119 27.99750 28.04461 28.03964 27.97523
28.02692
    257   258   259   260   261   262   263
264
28.03725 27.94780 27.76889 27.92872 27.95535 27.85338 27.96768
28.09450
    265   266   267   268   269   270   271
272
27.99511 28.08198 28.08775 27.94780 27.98020 27.89055 27.84105
27.86570
    273   274   275   276   277   278   279
280
28.00008 27.74901 27.67944 27.70190 28.16646 28.29568 28.14162
28.14162
    281   282   283   284   285   286   287
288

28.05216 27.89731 28.00247 28.06548 27.85835 27.84344 27.81322
27.72416
    289   290   291   292   293   294   295
296
27.72257 27.64664 27.84185 27.90665 27.89572 27.55520 27.51047
27.34746
    297   298   299   300   301   302   303
304
27.14768 27.44189 27.36396 27.48900 27.17492 27.13874 27.01092 27.16597
    305   306   307   308   309   310   311
312
27.31526 27.11051 27.23316 27.19340 27.22223 27.33255 27.26298
27.40869
    313   314   315   316   317   318   319
320
27.49298 28.01737 28.25592 28.06310 28.14221 28.12512 28.02334
28.03666
    321   322   323   324   325   326   327
328
27.77744 27.58700 27.64803 27.59495 27.63471 27.46912 27.47568
27.87067
    329   330   331   332   333   334   335
336
27.78837 27.34011 27.53134 27.47667 27.55062 27.54367 27.49158
27.41962
    337   338   339   340   341   342   343
344
27.51146 27.91162 27.88618 27.53353 27.24807 27.51365 27.47687
27.47608
    345   346   347   348   349   350   351
352
27.29677 27.55122 27.64982 27.64525 27.76193 27.74166 27.76551
27.85934
    353   354   355   356   357   358   359
360
27.85039 27.71025 27.53273 27.55380 27.41704 27.39716 27.34985
27.29876
    361   362   363   364   365
27.21567 27.14868 27.39815 27.39318 27.49993