OUTPUT HASIL SPSS

|  |  |  |  |
| --- | --- | --- | --- |
| **Case Processing Summary** | | | |
| Unweighted Casesa | | N | Percent |
| Selected Cases | Included in Analysis | 100 | 100.0 |
| Missing Cases | 0 | .0 |
| Total | 100 | 100.0 |
| Unselected Cases | | 0 | .0 |
| Total | | 100 | 100.0 |
| a. If weight is in effect, see classification table for the total number of cases. | | | |

|  |  |
| --- | --- |
| **Dependent Variable Encoding** | |
| Original Value | Internal Value |
| Tidak Tahan | 0 |
| Tahan | 1 |

**Block 0: Beginning Block**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Classification Tablea,b** | | | | | |
|  | Observed | | Predicted | | |
|  | Y | | Percentage Correct |
|  | Tidak Tahan | Tahan |
| Step 0 | Y | Tidak Tahan | 0 | 46 | .0 |
| Tahan | 0 | 54 | 100.0 |
| Overall Percentage | |  |  | 54.0 |
| a. Constant is included in the model. | | | | | |
| b. The cut value is .500 | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables in the Equation** | | | | | | | |
|  | | B | S.E. | Wald | df | Sig. | Exp(B) |
| Step 0 | Constant | .160 | .201 | .639 | 1 | .424 | 1.174 |

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| --- | --- | --- | --- | --- | --- |
| **Variables not in the Equation** | | | | | |
|  | | | Score | df | Sig. |
| Step 0 | Variables | X1 | 1.747 | 1 | .186 |
| X2 | 53.245 | 1 | .000 |
| X3 | .264 | 1 | .607 |
| X4 | .319 | 1 | .572 |
| X5 | 2.910 | 1 | .088 |
| Overall Statistics | | 57.751 | 5 | .000 |

**Block 1: Method = Enter**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Omnibus Tests of Model Coefficients** | | | | |
|  | | Chi-square | df | Sig. |
| Step 1 | Step | 78.052 | 5 | .000 |
| Block | 78.052 | 5 | .000 |
| Model | 78.052 | 5 | .000 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Model Summary** | | | |
| Step | -2 Log likelihood | Cox & Snell R Square | Nagelkerke R Square |
| 1 | 59.937a | .542 | .724 |
| a. Estimation terminated at iteration number 7 because parameter estimates changed by less than .001. | | | |

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| **Hosmer and Lemeshow Test** | | | |
| Step | Chi-square | df | Sig. |
| 1 | 16.300 | 8 | .038 |

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| --- | --- | --- | --- | --- | --- | --- |
| **Contingency Table for Hosmer and Lemeshow Test** | | | | | | |
|  | | Y = Tidak Tahan | | Y = Tahan | | Total |
| Observed | Expected | Observed | Expected |
| Step 1 | 1 | 10 | 9.913 | 0 | .087 | 10 |
| 2 | 10 | 9.603 | 0 | .397 | 10 |
| 3 | 9 | 7.982 | 0 | 1.018 | 9 |
| 4 | 7 | 7.828 | 3 | 2.172 | 10 |
| 5 | 5 | 5.833 | 6 | 5.167 | 11 |
| 6 | 3 | 3.195 | 8 | 7.805 | 11 |
| 7 | 0 | 1.279 | 10 | 8.721 | 10 |
| 8 | 2 | .253 | 8 | 9.747 | 10 |
| 9 | 0 | .086 | 10 | 9.914 | 10 |
| 10 | 0 | .029 | 9 | 8.971 | 9 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Classification Tablea** | | | | | |
|  | Observed | | Predicted | | |
|  | Y | | Percentage Correct |
|  | Tidak Tahan | Tahan |
| Step 1 | Y | Tidak Tahan | 40 | 6 | 87.0 |
| Tahan | 4 | 50 | 92.6 |
| Overall Percentage | |  |  | 90.0 |
| a. The cut value is .500 | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables in the Equation** | | | | | | | | |
|  | | B | S.E. | Wald | df | Sig. | Exp(B) |
|
| Step 1a | X1 | .399 | .431 | .857 | 1 | .354 | 1.490 |
| X2 | 3.429 | .714 | 23.085 | 1 | .000 | 30.856 |
| X3 | .620 | .422 | 2.160 | 1 | .142 | 1.859 |
| X4 | .077 | .388 | .039 | 1 | .844 | 1.080 |
| X5 | -.941 | .443 | 4.520 | 1 | .033 | .390 |
| Constant | -10.787 | 3.148 | 11.742 | 1 | .001 | .000 |
| a. Variable(s) entered on step 1: X1, X2, X3, X4, X5. | | | | | | | | |

**PERBAIKAN NILAI HOLMER DAN … DENGAN INTERAKSI ANTARA VARIABEL X1 DAN X3**

**HASIL OUTPUT**

**Logistic Regression**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case Processing Summary** | | | |
| Unweighted Casesa | | N | Percent |
| Selected Cases | Included in Analysis | 100 | 100.0 |
| Missing Cases | 0 | .0 |
| Total | 100 | 100.0 |
| Unselected Cases | | 0 | .0 |
| Total | | 100 | 100.0 |
| a. If weight is in effect, see classification table for the total number of cases. | | | |

|  |  |
| --- | --- |
| **Dependent Variable Encoding** | |
| Original Value | Internal Value |
| Tidak Tahan | 0 |
| Tahan | 1 |

**Block 0: Beginning Block**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Classification Tablea,b** | | | | | |
|  | Observed | | Predicted | | |
|  | Y | | Percentage Correct |
|  | Tidak Tahan | Tahan |
| Step 0 | Y | Tidak Tahan | 0 | 46 | .0 |
| Tahan | 0 | 54 | 100.0 |
| Overall Percentage | |  |  | 54.0 |
| a. Constant is included in the model. | | | | | |
| b. The cut value is .500 | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables in the Equation** | | | | | | | |
|  | | B | S.E. | Wald | df | Sig. | Exp(B) |
| Step 0 | Constant | .160 | .201 | .639 | 1 | .424 | 1.174 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Variables not in the Equation** | | | | | |
|  | | | Score | df | Sig. |
| Step 0 | Variables | X2 | 53.245 | 1 | .000 |
| X4 | .319 | 1 | .572 |
| X5 | 2.910 | 1 | .088 |
| X1X3 | 2.409 | 1 | .121 |
| Overall Statistics | | 57.829 | 4 | .000 |

**Block 1: Method = Enter**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Omnibus Tests of Model Coefficients** | | | | |
|  | | Chi-square | df | Sig. |
| Step 1 | Step | 77.482 | 4 | .000 |
| Block | 77.482 | 4 | .000 |
| Model | 77.482 | 4 | .000 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Model Summary** | | | |
| Step | -2 Log likelihood | Cox & Snell R Square | Nagelkerke R Square |
| 1 | 60.506a | .539 | .720 |
| a. Estimation terminated at iteration number 6 because parameter estimates changed by less than .001. | | | |

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| --- | --- | --- | --- |
| **Hosmer and Lemeshow Test** | | | |
| Step | Chi-square | df | Sig. |
| 1 | 12.164 | 8 | .144 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Contingency Table for Hosmer and Lemeshow Test** | | | | | | |
|  | | Y = Tidak Tahan | | Y = Tahan | | Total |
| Observed | Expected | Observed | Expected |
| Step 1 | 1 | 10 | 9.893 | 0 | .107 | 10 |
| 2 | 10 | 9.553 | 0 | .447 | 10 |
| 3 | 10 | 8.902 | 0 | 1.098 | 10 |
| 4 | 7 | 7.743 | 3 | 2.257 | 10 |
| 5 | 4 | 5.011 | 6 | 4.989 | 10 |
| 6 | 2 | 3.038 | 8 | 6.962 | 10 |
| 7 | 1 | 1.369 | 9 | 8.631 | 10 |
| 8 | 2 | .327 | 8 | 9.673 | 10 |
| 9 | 0 | .120 | 10 | 9.880 | 10 |
| 10 | 0 | .044 | 10 | 9.956 | 10 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Classification Tablea** | | | | | |
|  | Observed | | Predicted | | |
|  | Y | | Percentage Correct |
|  | Tidak Tahan | Tahan |
| Step 1 | Y | Tidak Tahan | 40 | 6 | 87.0 |
| Tahan | 5 | 49 | 90.7 |
| Overall Percentage | |  |  | 89.0 |
| a. The cut value is .500 | | | | | |
|  | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables in the Equation** | | | | | | | | |
|  | | B | S.E. | Wald | df | Sig. | Exp(B) |
|
| Step 1a | X2 | 3.305 | .668 | 24.483 | 1 | .000 | 27.257 |
| X4 | .015 | .372 | .002 | 1 | .968 | 1.015 |
| X5 | -.867 | .426 | 4.139 | 1 | .042 | .420 |
| X1X3 | .144 | .108 | 1.773 | 1 | .183 | 1.155 |
| Constant | -8.570 | 2.210 | 15.044 | 1 | .000 | .000 |
| a. Variable(s) entered on step 1: X2, X4, X5, X1X3. | | | | | | | | |

**UJI KECOCOKAN MODEL 1 DAN MODEL 2**

MODEL 2

|  |  |  |  |
| --- | --- | --- | --- |
| **Hosmer and Lemeshow Test** | | | |
| Step | Chi-square | df | Sig. |
| 1 | 12.164 | 8 | .144 |

MODEL 1

|  |  |  |  |
| --- | --- | --- | --- |
| **Hosmer and Lemeshow Test** | | | |
| Step | Chi-square | df | Sig. |
| 1 | 16.300 | 8 | .038 |

Uji Hosmer and Lemeshow Test

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model Regresi | Chi-Square | df | Sig. | Ket |
| P(Y)= f (X1,X2,X3,X4,X5) | 16,300 | 8 | 0,038 | Tolak Ho (Model tidak sesuai nilai observasi) |
| P(Y)= f (X1\*X3, X2, X4,X5) | 12,164 | 8 | 0,144 | Terima Ho (Model sesuai nilai observasi) |