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**LAMPIRAN**

**Lampiran 1**

**T tabel distribusi**

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**Lampiran 2**

**Close Price 3 Variabel**

| **NO** | **TAHUN** | **BULAN** | **ETF JII** | **INDEKS JII** | **IHSG** |
| --- | --- | --- | --- | --- | --- |
| 1 | 2019 | Januari | 728,39 | 713,13 | 6394,83 |
| 2 | 2019 | Februari | 729,70 | 710,98 | 6492,33 |
| 3 | 2019 | Maret | 715,47 | 702,04 | 6450,84 |
| 4 | 2019 | April | 709,22 | 699,83 | 6447,69 |
| 5 | 2019 | Mei | 661 | 646,47 | 6103,39 |
| 6 | 2019 | Juni | 684,05 | 673,36 | 6297,60 |
| 7 | 2019 | Juli | 709,56 | 690,96 | 6387,21 |
| 8 | 2019 | Agustus | 687,5 | 678,25 | 6262,87 |
| 9 | 2019 | September | 704,52 | 694,86 | 6260,60 |
| 10 | 2019 | Oktober | 691,13 | 682,21 | 6159,33 |
| 11 | 2019 | Novmber | 692,76 | 681,05 | 6125,93 |
| 12 | 2019 | Desember | 694,15 | 692,37 | 6217,97 |
| 13 | 2020 | Januari | 692 | 683,99 | 6225,77 |
| 14 | 2020 | Februari | 638,50 | 622,25 | 5855,48 |
| 15 | 2020 | Maret | 503,57 | 497,26 | 4786,90 |
| 16 | 2020 | April | 504,52 | 499,61 | 4601,02 |
| 17 | 2020 | Mei | 521,43 | 516,80 | 4599,32 |
| 18 | 2020 | Juni |  551,52 | 544,06 | 4925,86 |
| 19 | 2020 | Juli | 563,32 | 551,59 | 5069,15 |
| 20 | 2020 | Agustus | 578 | 561,39 | 5226,64 |
| 21 | 2020 | September | 553,27 | 537,06 | 5063,15 |
| 22 | 2020 | Oktober | 551,94 | 540,32 | 5071,63 |
| 23 | 2020 | November | 595,52 | 584,94 | 5483,82 |
| 24 | 2020 | Desember | 647,42 | 635,49 | 5978,13 |
| 25 | 2021 | Januari | 664,05 | 652,27 | 6247,44 |
| 26 | 2021 | Februari | 648,79 | 635,72 | 6199,80 |
| 27 | 2021 | Maret | 630,68 | 617,47 | 6252,83 |
| 28 | 2021 | April | 607,28 | 594,28 | 6012,27 |
| 29 | 2021 | Mei  | 575,64 | 562,92 | 5877,75 |
| 30 | 2021 | Juni | 580,95 | 535,21 | 6040,46 |
| 31 | 2021 | Juli | 568,76 | 544,75 | 6055,41 |
| 32 | 2021 | Agustus | 557,45 | 537,02 | 6111,31 |
| 33 | 2021 | September | 558,30 | 539,96 | 6115,47 |
| 34 | 2021 | Oktober | 597,05 | 572,08 | 6525,45 |
| 35 | 2021 | November | 594 | 567,12 | 6630,98 |
| 36 | 2021 | Desember | 598,18 | 563,83 | 6585,78 |
| 37 | 2022 | Januari | 650,21 | 561,29 | 6649,13 |
| 38 | 2022 | Februari | 606,33 | 568,34 | 6816,79 |
| 39 | 2022 | maret | 625,77 | 577,69 | 6958,39 |
| 40 | 2022 | April | 653,47 | 607,25 | 7198,94 |
| 41 | 2022 | Mei | 650 | 596,23 | 6850,94 |
| 42 | 2022 | Juni | 654,33 | 591,98 | 7046,86 |
| 43 | 2022 | Juli | 636,57 | 578,02 | 6769,36 |
| 44 | 2022 | Agustus | 674 | 613,36 | 7115,56 |
| 45 | 2022 | September | 687,41 | 622,32 | 7188,81 |
| 46 | 2022 | Oktober | 674,71 | 611,87 | 6984,41 |
| 47 | 2022 | November | 675,18 | 610,56 | 7046,15 |
| 48 | 2022 | Desember  | 655,68 | 593,81 | 6831,52 |

**Lampiran 3**

**PERHITUNGAN RETURN ETF JII BULANAN (%)**

**2019**

1. Januari = $\frac{728,39-696,50}{696,50}=$ 0,0458

0,0458 X 100 = 4,58

1. Februari = $\frac{729,70-728,39}{728,39}$ = 0,0018

0,0018 X 100 = 0,18

1. Maret = $\frac{715,48-729,70}{729,70}=$ -0,0195

-0,0195 X 100 = -1,95

1. April = $\frac{709,23-715,48}{715,48}=$ -0,0087

-0,0087 X 100 = -0,87

1. Mei = $\frac{661-709,23}{709,23}=$ -0,0680

-0,0680 X 100 = -6,80

1. Juni = $\frac{684,05-661}{661}=$ 0,0349

0,0349 X 100 = 3,49

1. Juli = $\frac{709,56-684,05}{684,05}=$ 0,0373

0,0373 X 100 = 3,73

1. Agustus = $\frac{687,50-709,56}{709,56}=$ -0,0311

-0,0311 X 100 = -3,11

1. September = $\frac{704,52-687,50}{687,50}=$ 0,0247

0,0247 X 100 = 2,47

1. Oktober = $\frac{691,13-704,52}{704,52}=$ -0,0190

-0,0190 X 100 = -1,90

1. November = $\frac{692,76-691,13}{691,13}=$ 0,0023

0,0023 X 100 = 0,23

1. Desember = $\frac{694,16-692,76}{692,76}=$ 0,0020

0,0020 X 100 = 0,20

**2020**

1. Januari = $\frac{692-694,16}{694,16}=$ -0,0031

-0,0031 X 100% = -0,31

1. Februari = $\frac{638,50-692}{692}$ = -0,0773

-0,0773 X 100 = -7,73

1. Maret = $\frac{503,57-638,50}{638,50}=$ -0,2113

-0,2113 X 100 = -21,13

1. April = $\frac{504,52-503,57}{503,57}=$ 0,0019

0,0019 X 100 = 0,19

1. Mei = $\frac{521,44-504,52}{504,52}=$ 0,0335

0,0335 X 100 = 3,35

1. Juni = $\frac{551,52-521,44}{521,44}=$ 0,0577

0,0577 X 100 = 5,77

1. Juli = $\frac{563,32-551,52}{551,52}=$ 0,0214

0,0214 X 100 = 2,14

1. Agustus = $\frac{578-563,32}{563,32}=$ 0,0260

0,0260 X 100 = 2,60

1. September = $\frac{553,27-578}{578}=$ -0,0428

-0,0428 X 100 = -4,28

1. Oktober = $\frac{551,95-553,27}{553,27}=$ -0,0024

-0,0024 X 100 = -0,24

1. November = $\frac{595,52-551,95}{551,95}=$ 0,0789

0,0789 X 100 = 7,89

1. Desember = $\frac{647,42-595,52}{595,52}=$ 0,0871

0,0871 X 100 = 8,71

**2021**

1. Januari = $\frac{664,05-647,42}{647,42}=$ 0,0257

0,0257 X 100 = 2,57

1. Februari = $\frac{648,79-664,05}{664,05}$ = -0,0230

-0,0230 X 100 = -2,30

1. Maret = $\frac{630,68-648,79}{648,79}=$ -0,0279

-0,0279 X 100 = -2,79

1. April = $\frac{607,28-630,68}{630,68}=$ -0,0371

-0,0371 X 100 = -3,71

1. Mei = $\frac{575,65-607,28}{607,28}=$ -0,0521

-0,0521 X 100 = -5,21

1. Juni = $\frac{580,95-575,65}{575,65}=$ 0,0092

0,0092 X 100 = 0,92

1. Juli = $\frac{568,76-580,95}{580,95}=$ -0,0210

-0,0210 X 100 = -2,10

1. Agustus = $\frac{557,45-568,76}{568,76}=$ -0,0199

-0,0199 X 100 = -1,99

1. September = $\frac{558,30-557,45}{557,45}=$ 0,0015

0,0015 X 100 = 0,15

1. Oktober = $\frac{597,05-558,30}{558,30}=$ 0,0694

0,0694 X 100 = 6,94

1. November = $\frac{594-597,05}{597,05}=$ -0,0051

-0,0051 X 100 = -0,51

1. Desember = $\frac{598,18-594}{594}=$ 0,0070

0,0070 X 100 = 0,70

**2022**

1. Januari = $\frac{650,21-598,18}{598,18}=$ 0,0870

0,0870 X 100 = 8,70

1. Februari = $\frac{606,33-650,21}{650,21}$ = -0,0675

-0,0675 = X 100 = -6,75

1. Maret = $\frac{625,77-606,33}{606,33}=$ 0,0321

0,0321 X 100 = 3,21

1. April = $\frac{653,47-625,77}{625,77}=$ 0,0443

0,0443 X 100 = 4,43

1. Mei = $\frac{650-653,47}{653,47}=$ -0,0053

-0,0053 X 100 = -0,53

1. Juni = $\frac{654,33-650}{650}=$ 0,0067

0,0067 X 100 = 0,67

1. Juli = $\frac{636,57-654,33}{654,33}=$ -0,0271

-0,0271 X 100 = -2,71

1. Agustus = $\frac{674-636,57}{636,57}=$ 0,0588

0,0588 X 100 = 5,88

1. September = $\frac{687,41-674}{674}=$ 0,0199

0,0199 X 100 = 1,99

1. Oktober = $\frac{674,71-687,41}{687,41}=$ -0,0185

-0,0185 X 100 = -1,85

1. November = $\frac{675,18-674,71}{674,71}=$ 0,0007

0,0007 X 100 = 0,07

1. Desember = $\frac{655,68-675,18}{675,18}=$ -0,0289

-0,0289 X 100 = -2,89

**Lampiran 4**

**PERHITUNGAN RETURN INDEKS JII BULANAN (%)**

**2019**

1. Januari = $\frac{713,14-679}{679}=$ 0,0503

0,0503 X 100 = 5,03

1. Februari = $\frac{710,98-713,14}{713,14}$ = -0,0030

-0,0030 X 100 = -0,30

1. Maret = $\frac{702,04-710,98}{710,98}=$ -0,0126

-0,0126 X 100 = -1,26

1. April = $\frac{699,83-702,04}{702,04}=$ -0,0031

-0,0031 X 100 = -0,31

1. Mei = $\frac{646,47-699,83}{699,83}=$-0,0762

-0,0762 X 100 = -7,62

1. Juni = $\frac{673,36-646,47}{646,47}=$ 0,0416

0,0416 X 100 = 4,16

1. Juli = $\frac{690,96-673,36}{673,36}=$ 0,0261

0,0261 X 100% = 2,61

1. Agustus = $\frac{678,26-690,96}{690,96}=$ -0,0184

-0,0184 X 100 = -1,84

1. September = $\frac{694,86-678,26}{678,26}=$ 0,0245

0,0245 X 100 = 2,45

1. Oktober = $\frac{682,21-694,86}{694,86}=$ -0,0182

-0,0182 X 100 = -1,82

1. November = $\frac{681,05-682,21}{682,21}=$ -0,0017

-0,0017 X 100 = -0,17

1. Desember = $\frac{692,37-681,05}{681,05}=$ 0,0166

0,0166 X 100% = 1,66

**2020**

1. Januari = $\frac{683,99-692,37}{692,37}=$ -0,0121

-0,0121 X 100 = -1,21

1. Februari = $\frac{622,25-683,99}{683,99}$ = -0,0903

-0,0903 X 100 = -9,03

1. Maret = $\frac{497,26-622,25}{622,25}=$ -0,2009

-0,2009 X 100 = -20,09

1. April = $\frac{499,61-497,26}{497,26}=$ 0,0047

0,0047 X 100 = 0,47

1. Mei = $\frac{516,81-499,61}{499,61}=$ 0,0344

0,0344 X 100% = 3,44

1. Juni = $\frac{544,06-516,81}{516,81}=$ 0,0527

0,0527 X 100 = 5,27

1. Juli = $\frac{551,59-544,06}{544,06}=$ 0,0138

0,0138 X 100 = 1,38

1. Agustus = $\frac{561,39-551,59}{551,59}=$ 0,0178

0,0178 X 100 = 1,78

1. September = $\frac{537,06-561,39}{561,39}=$ -0,0433

-0,0433 X 100% = -4,33

1. Oktober = $\frac{540,32-537,06}{537,06}=$ 0,0061

0,0061 X 100% = 0,61

1. November = $\frac{584,95-540,32}{540,32}=$ 0,0826

0,0826 X 100% = 8,26

1. Desember = $\frac{635,49-584,95}{584,95}=$ 0,0864

0,0864 X 100% = 8,64

**2021**

1. Januari = $\frac{652,27-635,49}{635,49}=$ 0,0264

0,0264 X 100% = 2,64

1. Februari = $\frac{635,72-652,27}{652,27}$ = -0,0254

-0,0254 X 100% = -2,54

1. Maret = $\frac{617,48-635,72}{635,72}=$ -0,0287

-0,0287 X 100% = -2,87

1. April = $\frac{594,28-617,48}{617,48}=$ -0,0376

-0,0376 X 100% = -3,76

1. Mei = $\frac{562,92-594,28}{594,28}=$ -0,0528

-0,0528 X 100 = -5,28

1. Juni = $\frac{535,21-562,92}{562,92}=$ -0,0492

-0,0492 X 100 = -4,92

1. Juli = $\frac{544,75-535,21}{535,21}=$ 0,0178

0,0178 X 100 = 1,78

1. Agustus = $\frac{537,02-544,75}{544,74}=$ -0,0142

-0,0142 X 100 = -1,42

1. September = $\frac{539,96-537,02}{537,02}=$ 0,0055

0,0055 X 100 = 0,55

1. Oktober = $\frac{572,08-539,96}{539,96}=$ 0,0595

0,0595 X 100 = 5,95

1. November = $\frac{567,13-572,08}{572,08}=$ -0,0086

-0,0086 X 100 = -0,86

1. Desember = $\frac{563,83-567,13}{567,13}=$ -0,0058

-0,0058 X 100 = -0,58

**2022**

1. Januari = $\frac{561,30-563,83}{563,83}=$ -0,0045

-0,0045 X 100 = -0,45

1. Februari = $\frac{568,34-561,30}{561,30}$ = 0,0125

0,0125 X 100 = 1,25

1. Maret = $\frac{577,70-568,34}{568,34}=$ 0,0165

0,0165 X 100 = 1,65

1. April = $\frac{607,25-577,70}{577,70}=$ 0,0511

0,0511 X 100 = 5,11

1. Mei = $\frac{596,23-607,25}{607,25}=$ -0,0181

-0,0181 X 100 = -1,81

1. Juni = $\frac{591,98-596,23}{596,23}=$ -0,0071

-0,0071 X 100 = -0,71

1. Juli = $\frac{578,03-591,98}{591,98}=$ -0,0236

-0,0236 X 100 = -2,36

1. Agustus = $\frac{613,36-578,03}{578,03}=$ 0,0611

0,0611 X 100 = 6,11

1. September = $\frac{622,32-613,36}{613,36}=$ 0,0146

0,0146 X 100 = 1,46

1. Oktober = $\frac{611,88-622,32}{622,32}=$ -0,0168

-0,0168 X 100 = -1,68

1. November = $\frac{610,56-611,88}{611,88}=$ -0,0022

-0,0022 X 100% = -0,22

1. Desember = $\frac{593,82-610,56}{610,56}=$ -0,0274

-0,0274 X 100 = -2,74

**Lampiran 5**

**PERHITUNGAN RETURN IHSG BULANAN (%)**

**2019**

1. Januari = $\frac{6394,83-6137,16}{6137,16}=$ 0,0420

0,0420 X 100 = 4,20

1. Februari = $\frac{6492,33-6394,83}{6394,83}$ = 0,0152

0,0152 X 100 = 1,52

1. Maret = $\frac{6450,84-6492,33}{6492,33}=$ -0,0064

-0,0064 X 100 = -0,64

1. April = $\frac{6447,69-6450,84}{6450,84}=$ -0,0005

-0,0005 X 100 = 0,05

1. Mei = $\frac{6103,39-6447,69}{6447,69}=$ -0,0534

-0,0534 X 100 = -5,34

1. Juni = $\frac{6297,60-6103,39}{6103,39}=$ 0,0318

0,0318 X 100 = 3,18

1. Juli = $\frac{6387,21-6297,60}{6297,60}=$ 0,0142

0,0142 X 100 = 1,42

1. Agustus = $\frac{6262,87-6387,21}{6387,21}=$ -0,0195

-0,0195 X 100 =-1,95

1. September = $\frac{6260,60-6262,87}{6262,87}=$ -0,0004

-0,0004 X 100 = -0,04

1. Oktober = $\frac{6159,33-6260,60}{6260,60}=$ -0,0162

-0,0162 X 100 = -1,62

1. November = $\frac{6125,93-6159,33}{6159,33}=$ -0,0054

-0,0054 X 100 = -0,54

1. Desember = $\frac{6217,98-6125,93}{6125,93}=$ 0,0150

0,0150 X 100 = 1,50

**2020**

1. Januari = $\frac{6225,77-6217,98}{6217,98}=$ 0,0012

0,0012 X 100 = 0,12

1. Februari = $\frac{5855,48-6225,77}{6225,77}$ = -0,0595

-0,0595 X 100 = -5,95

1. Maret = $\frac{4786,91-5855,48}{5855,48}=$ -0,1825

-0,1825 X 100 = -18,25

1. April = $\frac{4601,02-4786,91}{4786,91}=$ -0,0388

-0,0388 X 100 = -3,88

1. Mei = $\frac{4599,33-4601,02}{4601,02}=$ -0,0004

-0,0004 X 100 = -0,04

1. Juni = $\frac{4925,86-4599,33}{4599,33}=$ 0,0710

0,0710 X 100 = 7,10

1. Juli = $\frac{5069,15-4925,86}{4925,86}=$ 0,0291

0,0291 X 100 = 2,91

1. Agustus = $\frac{5226,65-5069,15}{5069,15}=$ 0,0311

0,0311 X 100 = -3,11

1. September = $\frac{5063,16-5226,65}{5226,65}=$ -0,0313

-0,0313 X 100 = -3,13

1. Oktober = $\frac{5071,64-5063,16}{5063,16}=$ 0,0017

0,0017 X 100 = 0,17

1. November = $\frac{5483,82-5071,64}{5071,64}=$ 0,0813

0,0813 X 100 = 8,13

1. Desember = $\frac{5978,13-5483,82}{5483,82}=$ 0,0901

0,0901 X 100 = 9,01

**2021**

1. Januari = $\frac{6247,45-5978,13}{5978,13}=$ 0,0450

0,0450 X 100 = 4,50

1. Februari = $\frac{6199,80-6247,45}{6247,45}$ = -0,0076

-0,0076 X 100 = -0,76

1. Maret = $\frac{6252,83-6199,80}{6199,80}=$ 0,0085

0,0085 X 100 = 0,85

1. April = $\frac{6012,27-6252,83}{6252,83}=$ -0,0385

-0,0385 X 100 = -3,85

1. Mei = $\frac{5877,76-6012,27}{6012,27}=$ -0,0224

-0,0224 X 100 = -2,24

1. Juni = $\frac{6040,46-5877,76}{5877,76}=$ 0,0277

0,0277 X 100 = 2,77

1. Juli = $\frac{6055,42-6040,46}{6040,46}=$ 0,0025

0,0025 X 100 = 0,25

1. Agustus = $\frac{6111,31-6055,42}{6055,42}=$ 0,0092

0,0092 X 100 = 0,92

1. September = $\frac{6115,47-6111,31}{6111,31}=$ 0,0007

0,0007 X 100 = 0,07

1. Oktober = $\frac{6525,45-6115,47}{6115,47}=$ 0,0670

0,0670 X 100 = 6,70

1. November = $\frac{6630,98-6525,45}{6525,45}=$ 0,0162

0,0162 X 100 = 1,62

1. Desember = $\frac{6585,78-6630,98}{6630,98}=$ -0,0068

-0,0068 X 100 = -0,68

**2022**

1. Januari = $\frac{6649,13-6585,78}{6585,78}=$ 0,0096

0,0096 X 100 = 0,96

1. Februari = $\frac{6816,79-6649,13}{6649,13}$ = 0,0252

0,0252 X 100 = 2,52

1. Maret = $\frac{6958,39-6816,79}{6816,79}=$ 0,0208

0,0208 X 100 = 2,08

1. April = $\frac{7198,95-6958,39}{6958,39}=$ 0,0346

0,0346 X 100 = 3,46

1. Mei = $\frac{6850,94-7198,95}{7198,95}=$ -0,0483

-0,0483 X 100 = -4,83

1. Juni = $\frac{7046,86-6850,94}{6850,94}=$ 0,0286

0,0286 X 100 = 2,86

1. Juli = $\frac{6769,36-7046,86}{7046,86}=$ -0,0394

-0,0394 X 100 = -3,94

1. Agustus = $\frac{7115,56-6769,36}{6769,36}=$ 0,0511

0,0511 X 100 = 5,11

1. September = $\frac{7188,81-7115,56}{7115,56}=$ 0,0103

0,0103 X 100 = 1,03

1. Oktober = $\frac{6984,42-7188,81}{7188,81}=$ -0,0284

-0,0284 X 100 = -2,84

1. November = $\frac{7046,16-6984,42}{6984,42}=$ 0,0088

0,0088 X 100 = 0,88

1. Desember = $\frac{6831,52-7046,16}{7046,16}=$ -0,0305

-0,0305 X 100 = -3,05

**Lampiran 6**

**PRICE MONTH ETF JII**

| **YEAR** | **MONTH** | **PRICE** | **MONTH (%)** | **AVERAGE PRICE** **(%)** | **YEAR (%)** |
| --- | --- | --- | --- | --- | --- |
| 2019 | JAN | 728,39 | 4,58 |  |  |
|  | FEB | 729,70 | 0,18 |  |  |
|  | MARET | 715,48 | -1,95 |  |  |
|  | APRIL | 709,23 | -0,87 |  |  |
|  | MEI | 661 | -6,80 |  |  |
|  | JUNI | 684,05 | 3,49 | 700,62 | 0,02 |
|  | JULI | 709,56 | 3,73 |  |  |
|  | AGUST | 687,50 | -3,11 |  |  |
|  | SEPT | 704,52 | 2,47 |  |  |
|  | OKT | 691,13 | -1,90 |  |  |
|  | NOV | 692,76 | 0,23 |  |  |
|  | DES | 694,16 | 0,20 |  |  |
| 2020 | JAN | 692 | -0,31 |  |  |
|  | FEB | 638,50 | -7,73 |  |  |
|  | MARET | 503,57 | -21,13 |  |  |
|  | APRIL | 504,52 | 0,19 |  |  |
|  | MEI | 521,44 | 3,35 |  |  |
|  | JUNI | 551,52 | 5,77 |  |  |
|  | JULI | 563,32 | 2,14 | 575,09 | -2,81 |
|  | AGUST | 578 | 2,60 |  |  |
|  | SEPT | 553,27 | -4,28 |  |  |
|  | OKT | 551,95 | -0,24 |  |  |
|  | NOV | 595,52 | 7,89 |  |  |
|  | DES | 647,42 | 8,71 |  |  |
| 2021 | JAN | 664,05 | 2,57 |  |  |
|  | FEB | 648,79 | -2,30 |  |  |
|  | MARET | 630,68 | -2,79 |  |  |
|  | APRIL | 607,28 | -3,71 |  |  |
|  | MEI | 575,65 | -5,21 |  |  |
|  | JUNI | 580,95 | 0,92 | 598,43 | -0,61 |
|  | JULI | 568,76 | -2,1 |  |  |
|  | AGUST | 557,45 | -1,99 |  |  |
|  | SEPT | 558,30 | 0,15 |  |  |
|  | OKT | 597,05 | 6,94 |  |  |
|  | NOV | 594 | -0,51 |  |  |
|  | DES | 598,18 | 0,70 |  |  |
| 2022 | JAN | 650,21 | 8,70 |  |  |
|  | FEB | 606,33 | -6,75 |  |  |
|  | MARET | 625,77 | 3,20 |  |  |
|  | APRIL | 653,47 | 4,43 |  |  |
|  | MEI | 650 | -0,53 |  |  |
|  | JUNI | 654,33 | 0,67 |  |  |
|  | JULI | 636,57 | -2,71 | 653,64 | 0,85 |
|  | AGUST | 674 | 5,88 |  |  |
|  | SEPT | 687,41 | 1,99 |  |  |
|  | OKT | 674,71 | -1,85 |  |  |
|  | NOV | 675,18 | 0,07 |  |  |
|  | DES | 655,68 | -2,89 |  |  |

**Lampiran 7**

**PERHITUNGAN RETURN ETF JII PER TAHUN (%)**

**2020**

=$\frac{ETF JII2020-ETF JII2019}{ETF JII 2019}$

= $\frac{575,09-700,62}{700,62}=$ -0,1798

= -0,1798 X 100 = -17,92%

**2021**

=$\frac{ETF JII2021-ETF JII2020}{ETF JII 2020}$

= $\frac{598,43-575,09}{575,09}$ = 0,0405

= 0,0405 X 100 = 4,05%

**2022**

=$\frac{ETF JII2022-ETF JII2021}{ETF JII 2021}$

=$\frac{653,64-598,43}{598,43}$ = 0,0922

=0,0922 X 100 = 9,22%

**Lampiran 8**

**PRICE MONTH INDEKS JII**

| **YEAR** | **MONTH** | **PRICE** | **MONTH** | **AVERAGE PRICE** **(%)** | **YEAR (%)** |
| --- | --- | --- | --- | --- | --- |
| 2019 | JAN | 713,14 | 5,03 |  |  |
|  | FEB | 710,98 | -0,3 |  |  |
|  | MARET | 702,04 | -1,26 |  |  |
|  | APRIL | 699,83 | -0,31 |  |  |
|  | MEI | 646,47 | -7,62 |  |  |
|  | JUNI | 673,36 | 4,16 |  |  |
|  | JULI | 690,96 | 2,61 | 688,79 | 0,21 |
|  | AGUST | 678,26 | -1,84 |  |  |
|  | SEPT | 694,86 | 2,45 |  |  |
|  | OKT | 682,21 | -1,82 |  |  |
|  | NOV | 681,05 | -0,17 |  |  |
|  | DES | 692,37 | 1,66 |  |  |
| 2020 | JAN | 683,99 | -1,21 |  |  |
|  | FEB | 622,25 | -9,03 |  |  |
|  | MARET | 497,26 | -20,09 |  |  |
|  | APRIL | 499,61 | 0,47 |  |  |
|  | MEI | 516,81 | 3,44 |  |  |
|  | JUNI | 544,06 | 5,27 |  |  |
|  | JULI | 551,59 | 1,38 | 564,56 | -0,40 |
|  | AGUST | 561,39 | 1,78 |  |  |
|  | SEPT | 537,06 | -4,33 |  |  |
|  | OKT | 540,32 | 0,61 |  |  |
|  | NOV | 584,95 | 8,26 |  |  |
|  | DES | 635,49 | 8,64 |  |  |
| 2021 | JAN | 652,27 | 2,64 |  |  |
|  | FEB | 635,72 | -2,54 |  |  |
|  | MARET | 617,48 | -2,87 |  |  |
|  | APRIL | 594,28 | -3,76 |  |  |
|  | MEI | 562,92 | -5,28 |  |  |
|  | JUNI | 535,21 | -4,92 |  |  |
|  | JULI | 544,75 | 1,78 | 576,89 | -1,61 |
|  | AGUST | 537,02 | -1,42 |  |  |
|  | SEPT | 539,96 | 0,55 |  |  |
|  | OKT | 572,08 | 5,95 |  |  |
|  | NOV | 567,13 | -8,86 |  |  |
|  | DES | 563,83 | -0,58 |  |  |
| 2022 | JAN | 561,3 | -0,45 |  |  |
|  | FEB | 568,34 | 1,25 |  |  |
|  | MARET | 577,7 | 1,65 |  |  |
|  | APRIL | 607,25 | 5,11 |  |  |
|  | MEI | 596,23 | -1,81 |  |  |
|  | JUNI | 591,98 | -0,71 |  |  |
|  | JULI | 578,03 | -2,36 | 594,40 | 0,47 |
|  | AGUST | 613,36 | 6,11 |  |  |
|  | SEPT | 622,32 | 1,46 |  |  |
|  | OKT | 611,88 | -1,68 |  |  |
|  | NOV | 610,56 | -0,22 |  |  |
|  | DES | 593,82 | -2,74 |  |  |

**Lampiran 9**

**PERHITUNGAN RETURN INDEKS JII PERTAHUN (%)**

**2020**

=$\frac{Indeks JII2020-Indeks JII2019}{Indeks JII 2019}$

= $\frac{564,56-688,79}{688,79}=$ -0,1803

= -0,1803 X 100 = -18,03%

**2021**

=$\frac{Indeks JII2021-Indeks JII2020}{Indeks JII 2020}$

= $\frac{576,89-564,56}{564,56}$ = 0,0218

= 0,0218 X 100 = 2,18%

**2022**

=$\frac{ Indeks JII2022-Indeks JII2021}{Indeks JII 2021}$

=$\frac{594,40-576,89}{576,89}$ = 0,0303

=0,0303 X 100 = 3,03%

**Lampiran 10**

**PRICE MONTH IHSG**

| **YEAR** | **MONTH** | **PRICE** | **MONTH** | **AVERAGE PRICE****(%)** | **YEAR (%)** |
| --- | --- | --- | --- | --- | --- |
| 2019 | JAN | 6394,83 | 4,2 |  |  |
|  | FEB | 6492,33 | 1,52 |  |  |
|  | MARET | 6450,84 | -0,64 |  |  |
|  | APRIL | 6447,69 | -0,05 |  |  |
|  | MEI | 6103,39 | -5,34 |  |  |
|  | JUNI | 6297,6 | 3,18 |  |  |
|  | JULI | 6387,21 | 1,42 | 6300,05 | 0,14 |
|  | AGUST | 6262,87 | -1,95 |  |  |
|  | SEPT | 6260,6 | -0,04 |  |  |
|  | OKT | 6159,33 | -1,62 |  |  |
|  | NOV | 6125,93 | -0,54 |  |  |
|  | DES | 6217,98 | 1,50 |  |  |
| 2020 | JAN | 6225,77 | 0,12 |  |  |
|  | FEB | 5855,48 | -5,95 |  |  |
|  | MARET | 4786,91 | -18,25 |  |  |
|  | APRIL | 4601,02 | -3,88 |  |  |
|  | MEI | 4599,33 | -0,04 |  |  |
|  | JUNI | 4925,86 | 7,10 |  |  |
|  | JULI | 5069,15 | 2,91 | 5240,58 | -0,06 |
|  | AGUST | 5226,65 | 3,11 |  |  |
|  | SEPT | 5063,16 | -3,13 |  |  |
|  | OKT | 5071,64 | 0,17 |  |  |
|  | NOV | 5483,82 | 8,13 |  |  |
|  | DES | 5978,13 | 9,01 |  |  |
| 2021 | JAN | 6247,45 | 4,50 |  |  |
|  | FEB | 6199,8 | -0,76 |  |  |
|  | MARET | 6252,83 | 0,85 |  |  |
|  | APRIL | 6012,27 | -3,85 |  |  |
|  | MEI | 5877,76 | -2,23 |  |  |
|  | JUNI | 6040,46 | 2,77 |  |  |
|  | JULI | 6055,42 | 0,25 | 6221,25 | 0,85 |
|  | AGUST | 6111,31 | 0,92 |  |  |
|  | SEPT | 6115,47 | 0,07 |  |  |
|  | OKT | 6525,45 | 6,70 |  |  |
|  | NOV | 6630,98 | 1,62 |  |  |
|  | DES | 6585,78 | -0,68 |  |  |
| 2022 | JAN | 6649,13 | 0,96 |  |  |
|  | FEB | 6816,79 | 2,52 |  |  |
|  | MARET | 6958,39 | 2,08 |  |  |
|  | APRIL | 7198,95 | 3,46 |  |  |
|  | MEI | 6850,94 | -4,83 |  |  |
|  | JUNI | 7046,86 | 2,86 |  |  |
|  | JULI | 6769,36 | -3,94 | 6954,74 | 0,35 |
|  | AGUST | 7115,56 | 5,11 |  |  |
|  | SEPT | 7188,81 | 1,03 |  |  |
|  | OKT | 6984,42 | -2,84 |  |  |
|  | NOV | 7046,16 | 0,88 |  |  |
|  | DES | 6831,52 | -3,05 |  |  |

**Lampiran 11**

**PERHITUNGAN RETURN IHSG PER TAHUN (%)**

**2020**

=$\frac{IHSG2020-IHSG2019}{IHSG2019}$

= $\frac{5240,58-6300,05}{6300,05}=$ -0,1681

= -0,1681 X 100 = -16,81%

**2021**

=$\frac{IHSG2021-IHSG2020}{IHSG2020}$

= $\frac{6221,25-5240,58}{5240,58}$ = 0,1871

= 0,1871 X 100 = 18,71%

**2022**

=$\frac{ IHSG2022-IHSG2021}{IHSG2021}$

=$\frac{6954,74-6221,25}{6221,25}$ = 0,1179

=11,79 X 100 = 11,79%

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Lampiran 12****Hasil Uji One-Sample Normalias Kolmogrov-Smirnov Test**

|  |
| --- |
| **One-Sample Kolmogorov-Smirnov Test** |
|  | Unstandardized Residual |
| N | 48 |
| Normal Parametersa,b | Mean | .0000000 |
| Std. Deviation | 39.53102809 |
| Most Extreme Differences | Absolute | .114 |
| Positive | .059 |
| Negative | -.114 |
| Test Statistic | .114 |
| Asymp. Sig. (2-tailed) | .157c |
| a. Test distribution is Normal. |
| b. Calculated from data. |
| c. Lilliefors Significance Correction. |

**Lampiran 13****T-TEST****Independent Sample T-test ETF JII dengan Indeks JII** |
|  | Levene's Test for Equality of Variances | t-test for Equality of Means |
| F | Sig. | t | df | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
| Lower | Upper |
| RETURN | Equal variances assumed | .057 | .812 | .165 | 94 | .869 | 1.89583 | 11.49832 | -20.93436 | 24.72602 |
| Equal variances not assumed |  |  | .165 | 93.872 | .869 | 1.89583 | 11.49832 | -20.93476 | 24.72643 |

**Lampiran 14**

**Independent Sampel T-test ETF JII dengan IHSG**

|  |  |  |
| --- | --- | --- |
|  | Levene's Test for Equality of Variances | t-test for Equality of Means |
| F | Sig. | t | df | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
| Lower | Upper |
| RETURN | Equal variances assumed | .506 | .479 | 1.765 | 94 | .081 | 19.70833 | 11.16334 | -2.45673 | 41.87340 |
| Equal variances not assumed |  |  | 1.765 | 93.956 | .081 | 19.70833 | 11.16334 | -2.45687 | 41.87354 |