

LAPORAN PRAKTIKUM
ALGORITMA DAN STRUKTUR DATA
MODUL 7
REGULAR EXPRESSIONS



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E

TEKNIK INFORMATIKA
FAKULTAS KOMUNIKASI DAN INFORMATIKA
UNIVERSITAS MUHAMMADIYAH SURAKARTA
2022/2023

7.6 Soal-soal untuk Mahasiswa

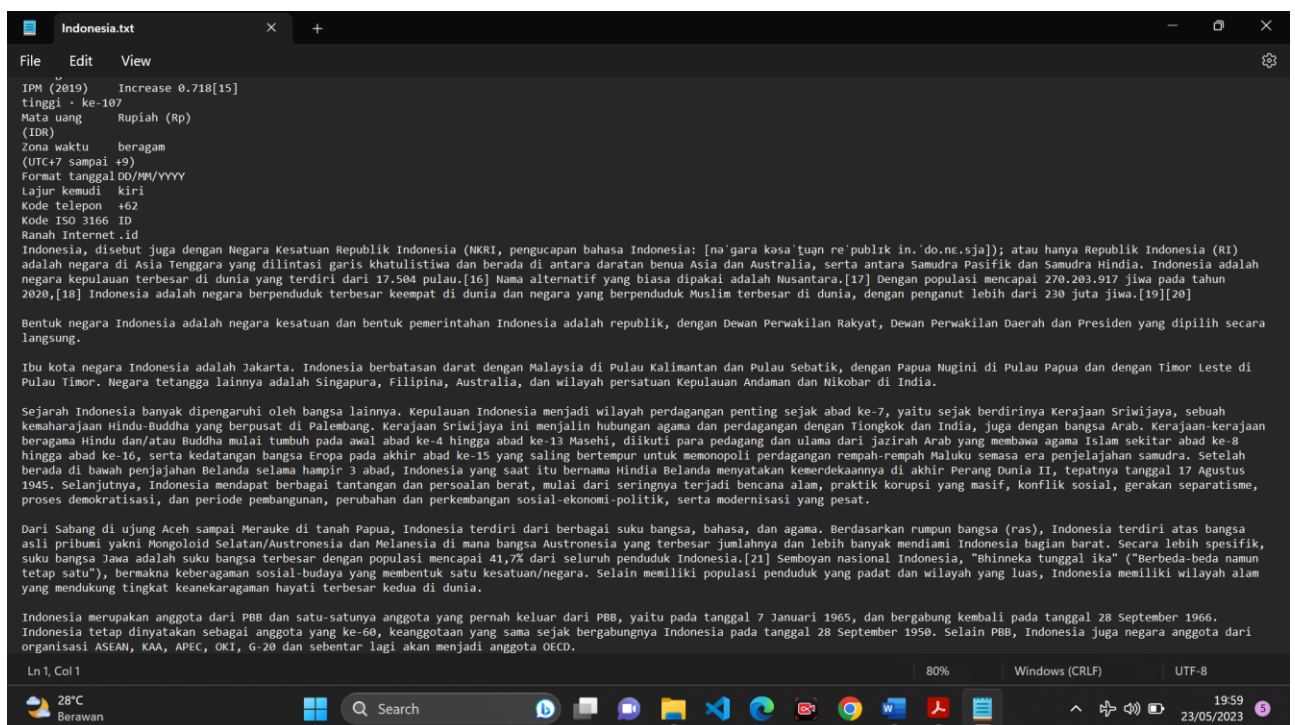
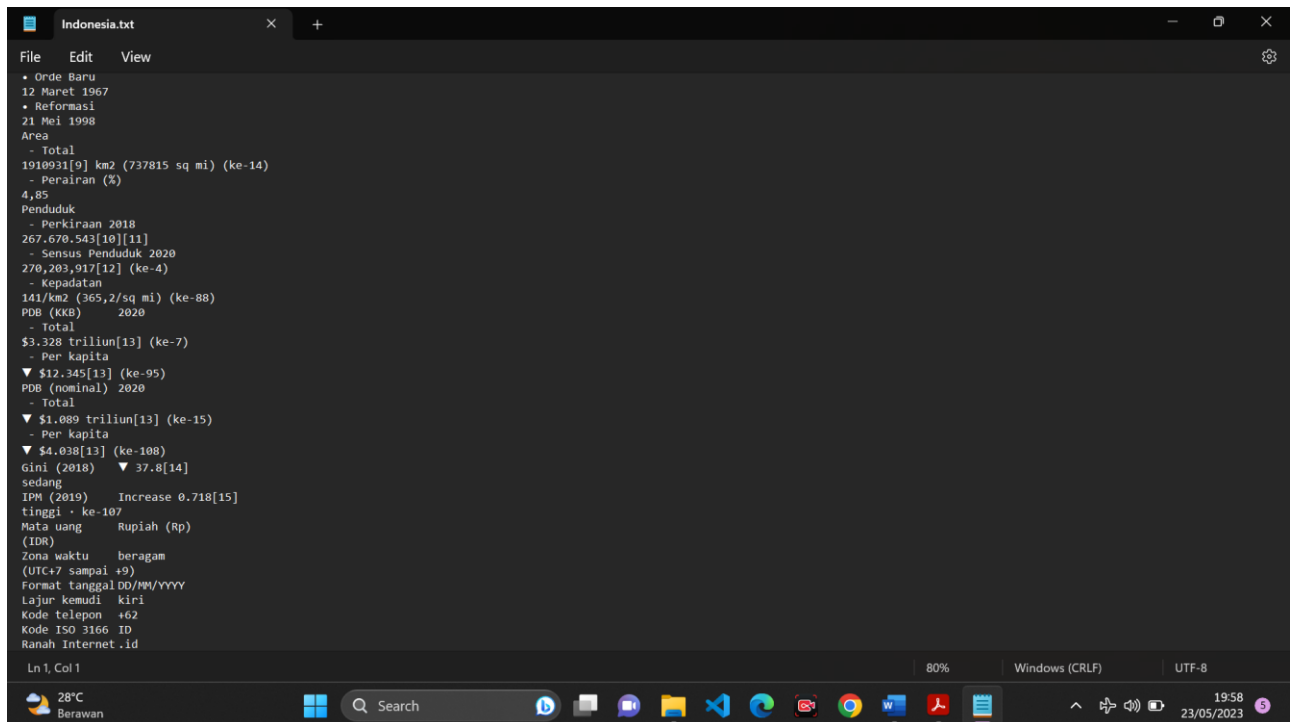
Nomor 1 :

```
Indonesia.txt
File Edit View

Indonesia
Dari Wikipedia bahasa Indonesia, ensiklopedia bebas
Loncat ke navigasiLoncat ke pencarian
Untuk kegunaan lain, lihat Indonesia (disambiguasi) dan Id (disambiguasi).
"RI" beralih ke halaman ini. Untuk kegunaan lain, lihat RI (disambiguasi).
Republik Indonesia
Bendera Indonesia
Bendera
{{{coat_alt}}}
Lambang Negara
Semboyan: Bhinneka Tunggal Ika (Kawi)
("Berbeda-beda, namun tetap satu")
Ideologi nasional: Pancasila[1][2]
Lagu kebangsaan: "Indonesia Raya"
MEMUJ:00
Wilayah yang dikendalikan Indonesia berwarna hijau
Wilayah yang dikendalikan Indonesia berwarna hijau
Lokasi Indonesia
Ibu kota Jakarta
6°10′S 106°49′E
Bahasa resmi
Bahasa Indonesia (nasional)
Bahasa Jawa[3] (daerah)
Bahasa daerah
Kurang lebih 700 bahasa[4]
Kelompok etnikKurang lebih 1.340 suku bangsa[5][6]
Agama (2018)[7][8]
85,7% Islam
10,72% Kristen
-7,60% Protestan
-3,12% Katolik Roma
1,74% Hindu
0,77% Buddha
0,03% Konfusianisme
0,04% Kepercayaan
DemonimBangsa Indonesia
Pemerintahan Negara kesatuan bersistem Republik presidensial
• Presiden
Ln 1, Col 1
80% Windows (CRLF) UTF-8
28°C Berawan Search 19:57 23/05/2023
```

```
Indonesia.txt
File Edit View

Pemerintahan Negara kesatuan bersistem Republik presidensial
• Presiden
Joko Widodo
• Wakil Presiden
Ma'ruf Amin
• Ketua MPR
Bambang Soesatyo
• Ketua DPR
Puan Maharani
• Ketua DPD
La Nyalla Mattalitti
• Ketua Mahkamah Agung
Muhammad Syarifuddin
Legislatif Majelis Permusyawaratan Rakyat (MPR)
- Majelis Tinggi
Dewan Perwakilan Daerah (DPD)
- Majelis Rendah
Dewan Perwakilan Rakyat (DPR)
Pembentukan
• Kerajaan Hindu-Buddha
abad ke-2 M
• Kesultanan Islam
abad ke-13 M
• Vereenigde Oostindische Compagnie
20 Maret 1602
• Hindia Belanda
1 Januari 1800
• Pendudukan Jepang
9 Maret 1942
• Proklamasi kemerdekaan
17 Agustus 1945
• Pengakuan dan pembentukan federasi
27 Desember 1949
• Federasi dibubarkan
17 Agustus 1950
• Peristiwa Supersemar
11 Maret 1966
• Orde Baru
12 Maret 1967
Ln 1, Col 1
80% Windows (CRLF) UTF-8
28°C Berawan Search 19:57 23/05/2023
```



```

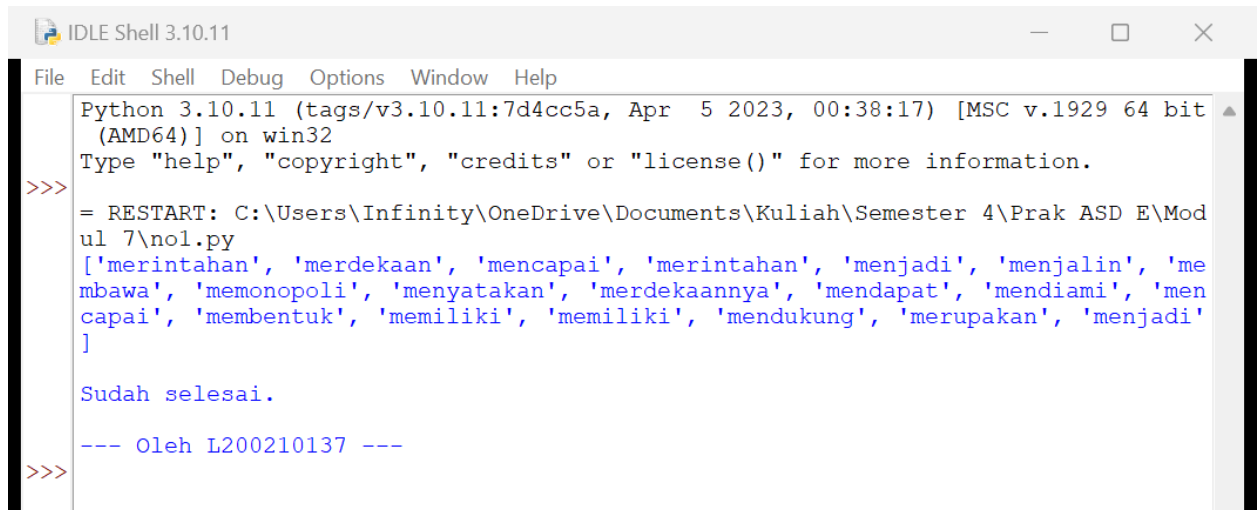
#NO.1
import re
s = open('Indonesia.txt','r', encoding='latin1')

teks = s.read()
s.close()
p = r'me\w+'
hasil = re.findall(p, teks)

print(hasil)
print('')
print('Sudah selesai.')

print('\n--- Oleh L200210137 ---')

```



```

IDLE Shell 3.10.11
File Edit Shell Debug Options Window Help
Python 3.10.11 (tags/v3.10.11:7d4cc5a, Apr  5 2023, 00:38:17) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\Infinity\OneDrive\Documents\Kuliah\Semester 4\Prak ASD E\Modul 7\nol.py
['merintahan', 'merdeka', 'mencapai', 'merintahan', 'menjadi', 'menjalin', 'membawa', 'memonopoli', 'menyatakan', 'merdekaannya', 'mendapat', 'mendiami', 'mencapai', 'membentuk', 'memiliki', 'memiliki', 'mendukung', 'merupakan', 'menjadi']

Sudah selesai.

--- Oleh L200210137 ---
>>>

```

Nomor 2 :

```

#NO.2
import re
s = open('Indonesia.txt','r', encoding='latin1')

teks = s.read()
s.close()
p = r'di\w+'
hasil = re.findall(p, teks)

print(hasil)
print('')
print('Sudah selesai.')

print('\n--- Oleh L200210137 ---')

```

```

>>> = RESTART: C:\Users\Infinity\OneDrive\Documents\Kuliah\Semester 4\Prak ASD E\Mod
ul 7\no2.py
['dia', 'dia', 'disambiguasi', 'disambiguasi', 'disambiguasi', 'dikendalikan', '
dikendalikan', 'din', 'dische', 'dia', 'dibubarkan', 'disebut', 'dilintasi', 'di
a', 'diri', 'dipakai', 'dipilih', 'dia', 'dipengaruhi', 'dirinya', 'dia', 'diiku
ti', 'dia', 'diri', 'diri', 'diami', 'dinyatakan']

Sudah selesai.

--- Oleh L200210137 ---
>>> |

```

Nomor 3 :

```

#NO.3
import re
s = open('Indonesia.txt','r', encoding='latin1')

teks = s.read()
s.close()
p = r'di \w+'
hasil = re.findall(p, teks)

print(hasil)
print('')
print('Sudah selesai.')

print('\n--- Oleh L200210137 ---')

```

```

>>> = RESTART: C:\Users\Infinity\OneDrive\Documents\Kuliah\Semester 4\Prak ASD E\Mod
ul 7\no3.py
['di Asia', 'di antara', 'di dunia', 'di dunia', 'di dunia', 'di Pulau', 'di Pul
au', 'di Pulau', 'di India', 'di wilayah', 'di Palembang', 'di bawah', 'di akhir
', 'di bencana', 'di ujung', 'di tanah', 'di mana', 'di dunia', 'di anggota']

Sudah selesai.

--- Oleh L200210137 ---
>>> |

```

Nomor 4 :

```
File Edit Selection View Go Run Terminal Help
KEI.html - Visual Studio Code

C:\Users\Infinity>OneDrive>Documents>Kuliah>Semester 4>Prak ASD E>Modul 7>KEI.html>html.client-nojs>body.mediawiki.ltr.sitedir-ltr.mw-hide-empty-elt.ns-0.ns-subject.mw-editabl

1 <!DOCTYPE html>
2 <html class="client-nojs" lang="en" dir="ltr">
3 <head>
4 <meta charset="UTF-8"/>
5 <title>Knowledge Economic Index - Wikipedia</title>
6 <script>document.documentElement.className="client-js";RLCONF={"wgBreakFrames":!1,"wgSeparatorTransformTable":["",""],"wgDigitTransformTab
7 "Knowledge_Economic_Index","wgRelevantArticleId":23050383,"wgIsProbablyEditable":!0,"wgRelevantPageIsProbablyEditable":!0,"wgRestrictionEd
8 "ready","user":"ready","user.options":{"loading","ext.cite.styles":"ready","skins.vector.styles.legacy":"ready","jquery.tablesorter.styles"
9 <script>(RLQ=window.RLQ||[]).push(function(){mw.loader.implement("user.options@1hzgi",function($,jQuery,require,module){/*@nomin*/mw.user.
10 }));</script>
11 <link rel="stylesheet" href="/w/load.php?lang=en&modules=ext.cite.styles%7Cext.uls.interlanguage%7Cext.visualEditor.desktopArticleTarg
12 <script async="" src="/w/load.php?lang=en&modules=startup&only=scripts&raw=1&skin=vector"></script>
13 <meta name="ResourceLoaderDynamicStyles" content="" />
14 <link rel="stylesheet" href="/w/load.php?lang=en&modules=site.styles&only=styles&skin=vector"/>
15 <meta name="generator" content="MediaWiki 1.37.0-wmf.5"/>
16 <meta name="referrer" content="origin"/>
17 <meta name="referrer" content="origin-when-crossorigin"/>
18 <meta name="referrer" content="origin-when-cross-origin"/>
19 <meta property="og:title" content="Knowledge Economic Index - Wikipedia"/>
20 <meta property="og:type" content="website"/>
21 <link rel="preconnect" href="//upload.wikimedia.org"/>
22 <link rel="alternate" media="only screen and (max-width: 720px)" href="//en.m.wikipedia.org/wiki/Knowledge_Economic_Index"/>
23 <link rel="alternate" type="application/x-wiki" title="Edit this page" href="/w/index.php?title=Knowledge_Economic_Index&action=edit"/>
24 <link rel="edit" title="Edit this page" href="/w/index.php?title=Knowledge_Economic_Index&action=edit"/>
25 <link rel="apple-touch-icon" href="/static/apple-touch/wikipedia.png"/>
26 <link rel="shortcut icon" href="/static/favicon/wikipedia.ico"/>
27 <link rel="search" type="application/opensearchdescription+xml" href="/w/opensearch_desc.php" title="Wikipedia (en)"/>
28 <link rel="EditURI" type="application/rsd+xml" href="//en.wikipedia.org/w/api.php?action=rsd"/>
29 <link rel="license" href="//creativecommons.org/licenses/by-sa/3.0/" />
30 <link rel="canonical" href="https://en.wikipedia.org/wiki/Knowledge_Economic_Index"/>
31 <link rel="dns-prefetch" href="//login.wikimedia.org"/>
```

```
File Edit Selection View Go Run Terminal Help
KEI.html - Visual Studio Code

C:\Users\Infinity>OneDrive>Documents>Kuliah>Semester 4>Prak ASD E>Modul 7>KEI.html>html.client-nojs>body.mediawiki.ltr.sitedir-ltr.mw-hide-empty-elt.ns-0.ns-subject.mw-editabl

235 <td>15
236 </td></tr>
237 <tr>
238 <td align="left"><span class="flagicon"></span></td>
239 <td>8.73</td>
240 <td>8.70</td>
241 <td>8.82</td>
242 <td>8.96</td>
243 <td>9.14</td>
244 <td>8.02</td>
245 <td>16
246 </td></tr>
247 <tr>
248 <td align="left"><span class="flagicon"></span></td>
249 <td>8.69</td>
250 <td>8.80</td>
251 <td>8.35</td>
252 <td>9.24</td>
253 <td>7.91</td>
254 <td>9.26</td>
255 <td>17
256 </td></tr>
257 <tr>
258 <td align="left"><span class="flagicon"></span></td>
259 <td>8.65</td>
260 <td>8.40</td>
261 <td>9.42</td>
262 <td>8.91</td>
263 <td>6.66</td>
264 <td>9.62</td>
265 <td>18
```

```
#NO.4
import re
f = open('KEI.html','r', encoding='latin1')

teks = f.read()

string = re.findall(r'title="([\w+])">', teks)
string = re.findall(r'">([\w+])</a></td>\n<td>([0-9.]+)</td>', teks)
a = []
for i in string:
    a.append((i[0], float(i[1])))

print(a)
print('')
print('Sudah selesai.')

print('\n--- Oleh L200210137 ---')
```

```
>>> = RESTART: C:\Users\Infinity\OneDrive\Documents\Kuliah\Semester 4\Prak ASD E\Modul 7\n04.py
[('Denmark', 9.58), ('Sweden', 9.52), ('Finland', 9.37), ('Netherlands', 9.32), ('Norway', 9.27), ('Canada', 9.21), ('Switzerland', 9.15), ('Australia', 9.05), ('Ireland', 8.92), ('Austria', 8.89), ('Iceland', 8.88), ('Germany', 8.87), ('Belgium', 8.73), ('Taiwan', 8.69), ('Luxembourg', 8.65), ('Japan', 8.56), ('France', 8.47), ('Estonia', 8.34), ('Slovenia', 8.25), ('Spain', 8.24), ('Singapore', 8.24), ('Israel', 8.22), ('Italy', 7.86), ('Hungary', 7.85), ('Lithuania', 7.68), ('Latvia', 7.64), ('Cyprus', 7.55), ('Portugal', 7.52), ('Greece', 7.38), ('Poland', 7.38), ('Slovakia', 7.33), ('Barbados', 7.25), ('Croatia', 7.19), ('Chile', 6.92), ('Bulgaria', 6.8), ('Romania', 6.37), ('Uruguay', 6.35), ('Qatar', 6.15), ('Dominica', 6.07), ('Malaysia', 6.06), ('Bahrain', 6.02), ('Kuwait', 6.01), ('Ukraine', 5.8), ('Argentina', 5.49), ('Brazil', 5.57), ('Turkey', 5.61), ('Jordan', 5.53), ('Armenia', 5.51), ('Mexico', 5.45), ('Thailand', 5.44), ('Oman', 5.37), ('Macedonia', 5.33), ('Mauritius', 5.18), ('Jamaica', 5.04), ('Moldova', 5.04), ('Kazakhstan', 5.01), ('Belarus', 4.93), ('Lebanon', 4.86), ('Tunisia', 4.73), ('Panama', 4.69), ('Georgia', 4.69), ('Peru', 4.64), ('Mongolia', 4.5), ('Colombia', 4.42), ('China', 4.35), ('Guyana', 4.31), ('Philippines', 4.25), ('Venezuela', 4.23), ('Namibia', 4.19), ('Albania', 4.04), ('Egypt', 4.03), ('Botswana', 3.96), ('Azerbaijan', 3.81), ('Kyrgyzstan', 3.74), ('Paraguay', 3.62), ('Ecuador', 3.46), ('Morocco', 3.45), ('Bolivia', 3.42), ('Iran', 3.39), ('Uzbekistan', 3.28), ('Algeria', 3.25), ('Indonesia', 3.23), ('Honduras', 3.21), ('India', 3.12), ('Guatemala', 3.11), ('Vietnam', 3.02), ('Swaziland', 2.93), ('Nicaragua', 2.87), ('Kenya', 2.82), ('Tajikistan', 2.79), ('Senegal', 2.63), ('Zimbabwe', 2.51), ('Ghana', 2.5), ('Uganda', 2.46), ('Madagascar', 2.37), ('Mauritania', 2.35), ('Tanzania', 2.28), ('Pakistan', 2.24), ('Lesotho', 2.15), ('Benin', 2.1), ('Nigeria', 2.04), ('Yemen', 1.8), ('Mali', 1.78), ('Mozambique', 1.71), ('Angola', 1.7), ('Cameroon', 1.69), ('Nepal', 1.61), ('Malawi', 1.55), ('Laos', 1.53), ('Bangladesh', 1.49), ('Myanmar', 1.48), ('Rwanda', 1.34), ('Ethiopia', 1.18), ('Djibouti', 1.15), ('Eritrea', 1.07)]

Sudah selesai.

--- Oleh L200210137 ---
>>>
```