

LAPORAN PRAKTIKUM
ALGORITMA DAN PEMROGRAMAN DASAR
POSTTEST 6



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SAMARINDA
2024

PEMBAHASAN

1.1 LATAR BELAKANG

Dictionary adalah salah satu tipe data yang sangat berguna dalam Python, terutama untuk menyimpan data yang terhubung melalui pasangan "key" dan "value." Dibandingkan dengan list, dictionary lebih fleksibel karena memungkinkan pemanggilan nilai menggunakan key unik, bukan melalui indeks.

Sifat utama dictionary adalah:

Unordered – Item dalam dictionary tidak disimpan dalam urutan tertentu.

Changeable – Nilai pada dictionary dapat diubah.

Unique – Setiap key harus unik, sehingga tidak boleh ada duplikasi key.

Fungsi dasar dictionary mencakup:

Menambah, mengubah, dan menghapus item dengan mudah.

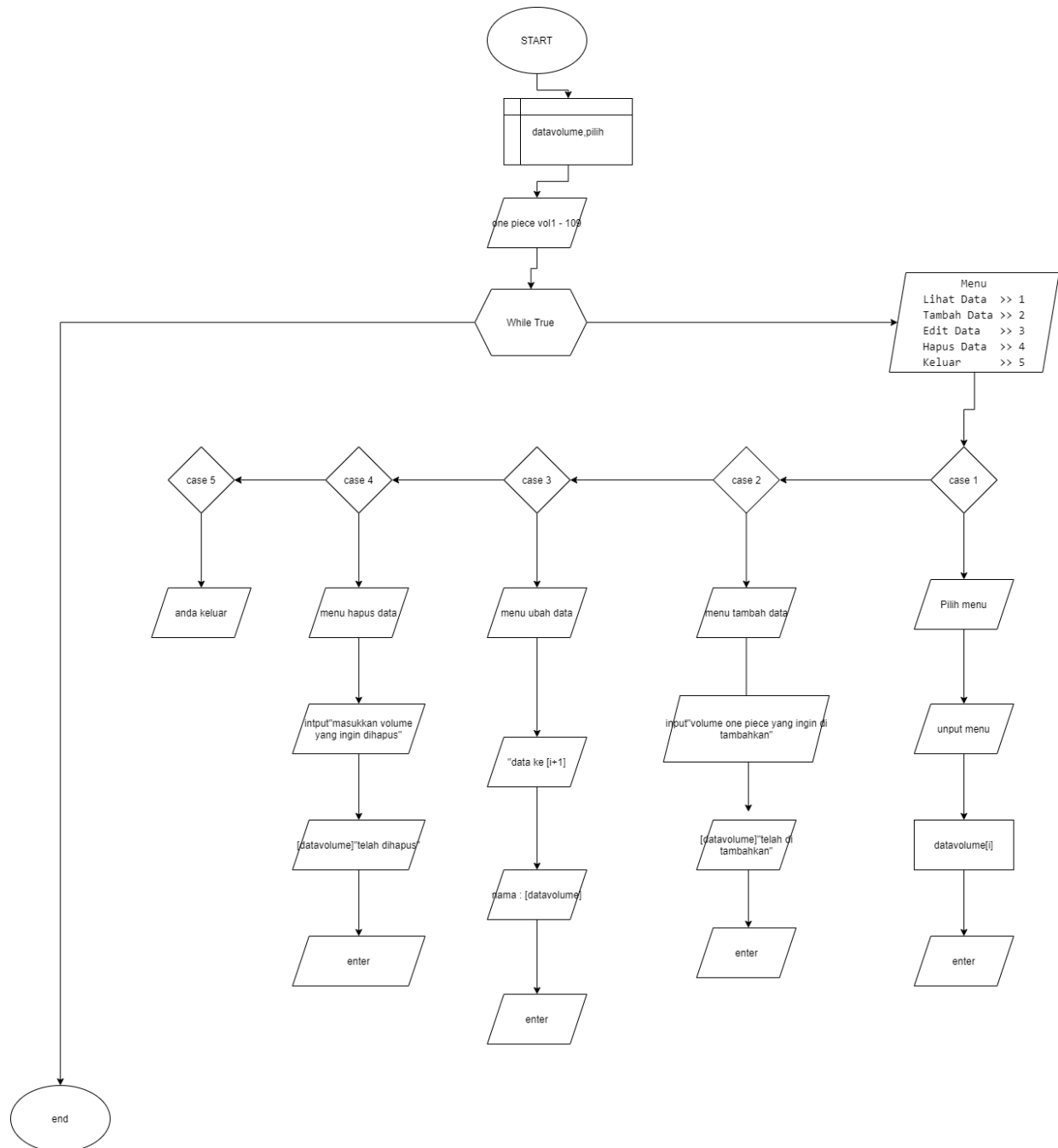
Menggunakan perulangan untuk mengakses semua key dan value.

Berbagai cara untuk mengakses item, seperti menggunakan [] atau get().

Selain itu, Python juga menyediakan beberapa fungsi tambahan seperti items(), keys(), values(), serta fungsi spesifik seperti update(), pop(), clear(), dan setdefault() yang membuat manipulasi dictionary lebih efisien. Dengan memahami penggunaan dictionary, kita dapat menangani data yang lebih kompleks dan lebih terstruktur, seperti dalam kasus nested dictionary dan dictionary yang berisi list.

Penggunaan dictionary sangat membantu dalam aplikasi dunia nyata, misalnya untuk menyimpan data mahasiswa, buku, nilai, dan lain-lain, karena kemampuannya yang dinamis dan mudah digunakan

1.2 FLOWCHART



1.3 SCREENSHOT CODINGAN

```

1 import os
2
3 data_volume = {
4     1: "One Piece Vol 1: Romance Dawn",
5     2: "One Piece Vol 2: Buggy the clown",
6     3: "One Piece Vol 3: The Pirate Hunter",
7     4: "One Piece Vol 4: The New World",
8     5: "One Piece Vol 5: The Duel of Giants",
9     6: "One Piece Vol 6: The Oath",
10    7: "One Piece Vol 7: The Hottest Day",
11    8: "One Piece Vol 8: It's Not a Hero!",
12    9: "One Piece Vol 9: The Dueling Warriors",
13    10: "One Piece Vol 10: The Legend Begins",
14    11: "One Piece Vol 11: The Battle of the Brothers",
15    12: "One Piece Vol 12: The Song of the Sea",
16    13: "One Piece Vol 13: The Island of the Gods",
17    14: "One Piece Vol 14: The Birth of Legends",
18    15: "One Piece Vol 15: Impel Down",
19    16: "One Piece Vol 16: The Path of Gods",
20    17: "One Piece Vol 17: The Land of Cold",
21    18: "One Piece Vol 18: The Lost Soul",
22    19: "One Piece Vol 19: The Road to Pirate",
23    20: "One Piece Vol 20: The Pirate's Dream",
24    21: "One Piece Vol 21: The Last Stand",
25    22: "One Piece Vol 22: The Return of the Captain",
26    23: "One Piece Vol 23: The Battle of the Summit",
27    24: "One Piece Vol 24: The Treasure's Light",
28    25: "One Piece Vol 25: The Forgotten Island",
29    26: "One Piece Vol 26: The Pirate's Heart",
30    27: "One Piece Vol 27: The Unbroken Dream",
31    28: "One Piece Vol 28: The New Frontier",
32    29: "One Piece Vol 29: The Warrior's Code",
33    30: "One Piece Vol 30: The Age of Pirates",
34    31: "One Piece Vol 31: The Straw Hat Pirates",
35    32: "One Piece Vol 32: The Shining Star",
36    33: "One Piece Vol 33: The Storm Ahead",
37    34: "One Piece Vol 34: The Flashing Blades",
38    35: "One Piece Vol 35: The Golden Road",
39    36: "One Piece Vol 36: The Path to Power",
40    37: "One Piece Vol 37: The King of the Seas",
41    38: "One Piece Vol 38: The Final Chapter",
42    39: "One Piece Vol 39: The Heart of the Future",
43    40: "One Piece Vol 40: The Battle of the New World",
44    41: "One Piece Vol 41: A New Era",
45    42: "One Piece Vol 42: The Will of the King",
46    43: "One Piece Vol 43: The Shining Star",
47    44: "One Piece Vol 44: The Path of the Warrior",
48    45: "One Piece Vol 45: The Rise of the Empires",
49    46: "One Piece Vol 46: The Quest for Freedom",
50    47: "One Piece Vol 47: The Last Adventure",
51    48: "One Piece Vol 48: The Shining Star",
52    49: "One Piece Vol 49: Freedom Awaits",
53    50: "One Piece Vol 50: New Generations",
54    51: "One Piece Vol 51: The Fall of the Emperor",
55    52: "One Piece Vol 52: The Heart of the Crew",
56    53: "One Piece Vol 53: The Final Frontier",
57    54: "One Piece Vol 54: The Journey Ahead",
58    55: "One Piece Vol 55: The Soul of the Sea",
59    56: "One Piece Vol 56: Bonds of Loyalty",
60    57: "One Piece Vol 57: The Fame of Heroes",
61    58: "One Piece Vol 58: The Tides of Fate",
62    59: "One Piece Vol 59: The Awakening",
63    60: "One Piece Vol 60: The Storm Ahead",
64    61: "One Piece Vol 61: The New World Order",
65    62: "One Piece Vol 62: The Thunderous Echo",
66    63: "One Piece Vol 63: The Heart of the Crew",
67    64: "One Piece Vol 64: Bonds of Strength",
68    65: "One Piece Vol 65: Tides of War",
69    66: "One Piece Vol 66: The Winds of Fate",
70    67: "One Piece Vol 67: The Leaps of Fate",
71    68: "One Piece Vol 68: The Final Battle",
72    69: "One Piece Vol 69: The Darkened Future",
73    70: "One Piece Vol 70: New Frontiers",
74    71: "One Piece Vol 71: The Journey Continues",
75    72: "One Piece Vol 72: The Heart of the Sea",
76    73: "One Piece Vol 73: The Leap of Titans",
77    74: "One Piece Vol 74: The End of the World",
78    75: "One Piece Vol 75: The New Dawn",
79    76: "One Piece Vol 76: The Ultimate Challenge",
80    77: "One Piece Vol 77: The Return to Power",
81    78: "One Piece Vol 78: The Awakening",
82    79: "One Piece Vol 79: The Battle of Legends",
83    80: "One Piece Vol 80: The Final Stand",
84    81: "One Piece Vol 81: Echoes of the Past",
85    82: "One Piece Vol 82: The Heart of the East",
86    83: "One Piece Vol 83: The New Age",
87    84: "One Piece Vol 84: The Rise of the East",
88    85: "One Piece Vol 85: The Search for Truth",
89    86: "One Piece Vol 86: The Path of Heroes",
90    87: "One Piece Vol 87: The Edge of the World",
91    88: "One Piece Vol 88: New Horizons",
92    89: "One Piece Vol 89: The Heart of Legends",
93    90: "One Piece Vol 90: The Age of Empires",
94    91: "One Piece Vol 91: A New Dawn",
95    92: "One Piece Vol 92: The Shining Light",
96    93: "One Piece Vol 93: The Final Journey",
97    94: "One Piece Vol 94: Echoes of Time",
98    95: "One Piece Vol 95: The Path of Destiny",
99    96: "One Piece Vol 96: The New World Order",
100   97: "One Piece Vol 97: Rise of the Empire",
101   98: "One Piece Vol 98: The Final Battle",
102   99: "One Piece Vol 99: The Destiny of Pirates",
103   100: "One Piece Vol 100: The Endless Seas",
104   101: "One Piece Vol 101: A New Era",
105   102: "One Piece Vol 102: The Shining Star",
106   103: "One Piece Vol 103: The Heart of the World",
107   104: "One Piece Vol 104: The Call of the Ocean",
108   105: "One Piece Vol 105: The Rise of Heroes",
109   106: "One Piece Vol 106: The Final Journey",
110   107: "One Piece Vol 107: The Soul of the Sea",
111   108: "One Piece Vol 108: The Final World"
112 }
113
114 os.system('cls || clear')
115 while True:
116     print("""
117     Menu
118     1. Lihat Data
119     2. Tambah Data
120     3. Edit Data
121     4. Hapus Data
122     5. Keluar
123     """)
124     pilih = input("Masukan Pilihan menu >> ")
125     os.system('cls || clear')
126     match(pilih):
127         case '1':
128             print("====Lihat Data====")
129             for i in data_volume:
130                 print(f"{i}. {data_volume[i]}")
131             print(f"{data_volume[i]}")
132             input("Enter...")
133             os.system('cls || clear')
134         case '2':
135             print("====Tambah Data====")
136             inputuser = input("Volume One Piece yang mau ditambahkan : ")
137             new_index = len(data_volume) + 1
138             data_volume[new_index] = inputuser
139             print("Data berhasil ditambahkan")
140             input("Enter...")
141             os.system('cls || clear')
142         case '3':
143             print("====Edit Data====")
144             for i in data_volume:
145                 print(f"{i}. {data_volume[i]}")
146             index = int(input("Masukkan volume yang mau diedit: "))
147             data_volume[index] = input("Masukkan volume yang anda inginkan :")
148             print("Data berhasil diedit")
149             input("Enter...")
150             os.system('cls || clear')
151         case '4':
152             print("====Hapus Data====")
153             for i in data_volume:
154                 print(f"{i}. {data_volume[i]}")
155             index = int(input("Masukkan volume yang ingin dihapus: "))
156             data_volume.pop(index)
157             print("Data berhasil dihapus")
158             input("Enter...")
159             os.system('cls || clear')
160         case '5':
161             print("Anda keluar...")
162             exit()
163     case _:
164         pass

```

