**FORMAT DATA ALE**

Program menggunakan Bahasa pemrograman python

Import library yang dibutuhkan

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| import sys  import shutil  import datetime |

Buka file dan hapus semua spasi ke file 1\_no\_space\_

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| inputFile = ''.join(sys.argv[1:])  # first get all lines from file  with open(inputFile, 'r') as f:  lines = f.readlines()  # remove spaces  lines = [line.replace(' ', '') for line in lines]  # save to new file  with open('1\_no\_space\_'+inputFile, 'w') as f:  f.writelines(lines) |

Hapus semua baris yang kosong ke file 2\_no\_blank\_

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| # remove blank lines  with open('1\_no\_space\_'+inputFile) as originalFile, open('2\_no\_blank\_'+inputFile, 'w') as tmpFile:  for line in originalFile:  if line.strip():  tmpFile.write(line) |

Hapus semua baris yang tidak digunakan ke file 3\_clean\_

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| # filter with some word  filter\_words = ['[TO]', '[SND]']  # remove unuse line  with open('1\_no\_space\_'+inputFile) as originalFile, open('3\_clean\_'+inputFile, 'w') as outfile:  for line in originalFile:  if any(filter\_words in line for filter\_words in filter\_words):  outfile.write(line) |

Format setiap baris dan pisahkan dengan titik koma

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| # Format line with semicolon  with open('3\_clean\_'+inputFile, 'r') as f:  lines = f.readlines()  lines = [line.replace('BER', ';') for line in lines]  lines = [line.replace('SN', ';') for line in lines]  lines = [line.replace(';D', 'SND') for line in lines]  lines = [line.replace('FRQ', '') for line in lines]  lines = [line.replace('][', ';') for line in lines]  lines = [line.replace(']', '') for line in lines]  lines = [line.replace('[', '') for line in lines]  lines = [line.replace("[AL0]", '') for line in lines]  lines = [line.replace('2018;', '2018 ') for line in lines]  lines = [line.replace('2019;', '2019 ') for line in lines]  lines = [line.replace('2020;', '2020 ') for line in lines]  lines = [line.replace('2021;', '2021 ') for line in lines]  lines = [line.replace('2022;', '2022 ') for line in lines]  # save formated lines to new file  with open('4\_formated\_'+inputFile, 'w') as f:  f.writelines(lines) |

Convert tanggal jadi format computer

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| # time to epoch in file  with open('4\_formated\_'+inputFile, 'r') as f:  lines = f.readlines()  j = 0  with open('output\_'+inputFile, 'w', encoding='utf-8') as my\_file:  for i in range(1, len(lines)+1):  data = lines[j:i]  data = [line.replace(' ', ':') for line in data]  data = [line.replace('/', ':') for line in data]  listLine = data[0].split(';')  data2 = listLine[0].split(':')  ss = int(data2[5])  mn = int(data2[4])  hh = int(data2[3])  mm = int(data2[0])  dd = int(data2[1])  yyyy = int(data2[2])  epochTime = datetime.datetime(yyyy, mm, dd, hh, mn, ss).timestamp()  epochTime = int(epochTime)  # print(epochTime)  listLine[0] = str(epochTime)  data[0] = ";".join(listLine)  my\_file.writelines(data)  j = j+1 |

Simpan file output dalam format csv

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| # copy file to csv  shutil.copyfile('output\_'+inputFile, 'output\_'+inputFile+'.csv') |