## totalstation-convert.py

```
001 # Parsen und konvertieren von Tachymeter-Daten
003
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009
012 # Import of Libraries
013 # -
014
015 # import math as m
016 # import string as st
017 # import random as r
018 import numpy as np
019 import os
020
021
022 # -----
023 # Debugging-Settings
024
025 verbose = True # Shows more debugging information
026
027
028 # Functions
029 # -----
030
031
032 # Classes
033 # --
034
035
036 # Beginning of the Programm
037 # --
038
039 if __name__ == '__main__':
040
         # Import der Messwerte des Tachymeters
file = open(os.path.join("data","totalstation_data.txt"))
totalstation_data = file.readlines()
041
042
043
044
         file.close()
045
         totalstation_data.pop(0)
         for i, e in enumerate(totalstation_data):
046
             totalstation_data[i] = e.strip().split(";")
047
             temp = []
for j, f in enumerate(totalstation_data[i]):
    if(j != 1):
        temp.append(float(f))
048
049
050
051
052
                  else:
053
                       temp.append(f)
054
             totalstation_data[i] = temp
055
         for i, e in enumerate(totalstation_data):
   totalstation_data[i][3] = e[3] /200*np.pi
   totalstation_data[i][4] = e[4] /200*np.pi
056
057
058
059
060
         # Export
         file = open(os.path.join("data","totalstation_data_converted.txt"),f"w")
for i in totalstation_data:
061
062
             for j, e in enumerate(i):
    if(j == 0):
063
064
065
                       file.writelines(f"{e}")
             else:
    file.writelines(f"; {e}")
file.writelines(f"\n")
066
067
068
069
         file.close()
```