# IZRAČUN DOLŽINE LOKSODROME

SPLETNA STRAN



#### PROGRAM

Uvoz knjižnic

```
import math
import xml.etree.ElementTree as ET
import time
import subprocess
```

Vhodni podatki

```
------
#TOČKA A
#Zapis geografske širine (s)
zapis s A = input ("Podaj geografsko širino točke A (s m sek):")
razdeli s A = zapis s A.split() #razdeli glede presledkov
s_s_A = float(razdeli_s_A[0])
m s A = float(razdeli s A[1])
sek s A = float(razdeli s A[2])
# Zapis geografske dolžine (d)
zapis_d_A = input("Podaj geografsko dolžino točke A (s m sek):")
razdeli d A = zapis d A.split() #razdeli glede presledkov
s d A = float(razdeli d A[0])
m d A = float(razdeli d A[1])
sek d A = float(razdeli_d_A[2])
# Izpis Fi in Lambda točke A
Fi A = math.radians(s s A + m s A/60 + sek s A/3600)
Lambda A = math.radians(s d A + m d A/60 + sek d A/3600)
# koordinate točk
x1 = (s_s_A + m_s_A/60 + sek_s_A/3600)
x2 = (s d A + m d A/60 + sek d A/3600)
```

• Izračun dolžine loksodrome

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• Izris v Google Earth

```
<?xml version="1.0" encoding="UTF-8"?>
Skml xmlns="http://www.opengis.net/kml/2.2" xmlns:gx="http://www.google.com/kml/ext/2.2" xmlns:kml="http://www.opengis.net/kml/2.2" xmlns:atom="http://www.w3.org/2005/Atom">
                     <name>Prikaz XML</name>
                     <Style id="FilledPolygon">
                                   <LineStyle>
                                              <color>ff00ffff</color>
                                   </LineStyle>
                                   <PolyStyle>
                                               <color>ff00ffff</color>
                                   </PolyStyle>
                     </Style>
                     <Placemark>
                                   <name>A filled KML Polygon uses rhumb lines</name>
                                   <styleUrl>#FilledPolygon</styleUrl>
                                   <Polygon>
                                                <tessellate>1</tessellate>
                                                 <outerBoundaryIs>
                                                              <LinearRing>
                                                                           <coordinates>
                                                                                       -129.0133032296588, \\ 66.40852471670162, \\ 0 \ 155.1760142482501, \\ 87.30334954255064, \\ 0 \ 156.1760142482501, \\ 87.30334954255064, \\ 0 \ -130.0133032296588, \\ 66.40852471670162, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032296588, \\ 0 \ -120.0133032964, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.01303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.01303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.013303296, \\ 0 \ -120.01330329, \\ 0 \ -120.01330329, \\ 0 \ -120.01330329, \\ 0 \ -120.01330329, \\ 0 \ -12
                                                              </LinearRing>
                                                </outerBoundaryIs>
                                   </Polygon>
                     </Placemark>
        </Document>
       </kml>
```

```
tree = ET.parse('LoksXML.kml')
root = tree.getroot()

root[0][2][3][1][0][0].text = podatek

tree.write("output.kml")

time.sleep (5)
subprocess.call(["Pot kjer je program shranjen", "Pot, ker program pridobi podatke"])
```

```
sxl = str(xl) + ", "
 syl = str(yl) +","
 szl = str(zl) +" "
 sx2 = str(x2) + ", "
 sy2 = str(y2) +","
 sz2 = str(z2) +" "
 if y2 >0:
      sy2p = y2+0.2
      sy2p = y2-0.2
      sylp = yl+0.2
      sylp = yl-0.2
∃if x2 >0:
      sx2p = x2+0.2
      sx2p = x2-0.2
□if xl >0:
      sxlp = x1+0.2
      sxlp = xl-0.2
 sy2pp = str(sy2p) +","
 sylpp = str(sylp) +","
 sx2pp = str(sx2p) + ", "
 sxlpp = str(sxlp) +","
 \texttt{podatek} = \texttt{sx2} + \texttt{sx1} + \texttt{sz2} + \texttt{sy2} + \texttt{sy1} + \texttt{sz1} + \texttt{sy2pp} + \texttt{sy1pp} + \texttt{sz2} + \texttt{sx2pp} + \texttt{sx1pp} + \texttt{sz1}
```

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Dostop: https://ninacrnigoj.wixsite.com/home