Name: Om patil Roll No: 6265 Class: SYIT Div: C

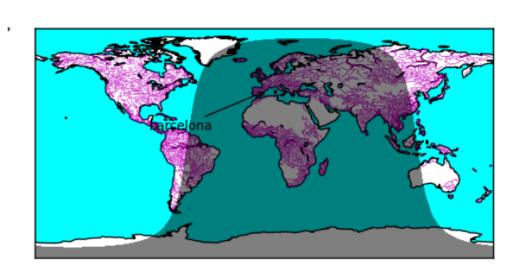
PRACTICAL 11

• To plot data on a map using google map API

from mpl_toolkits.basemap import Basemap import matplotlib.pyplot as plt from datetime import datetime

```
map = Basemap(projection='cyl')
map.drawmapboundary(fill_color='aqua')
map.fillcontinents(color='white', lake_color='aqua')
x1, y1 = map(2, 41)
x2, y2 = (-90, 10)
map.drawcoastlines()
map.drawrivers(color='m')
currentdate = datetime(2023, 9, 1, 22, 0)
plt.annotate('barcelona', xy=(x1, y1), xycoords='data', xytext=(x2, y2), textcoords='data', arrowprops=dict(arrowstyle='->'))
map.nightshade(currentdate)
plt.show()
```

Output:



Name: Om patil Roll No: 6265 Class: SYIT Div: C

PRACTICAL 12

• To create simple captcha generator.

from captcha.image import ImageCaptcha image= ImageCaptcha(width= 280,height = 90) captcha_text = 'SY45IT' data = image.generate(captcha_text) image.write(captcha_text,'CAPTCHA.png') from captcha.audio import AudioCaptcha audio = AudioCaptcha() captcha_text = '6245' data = audio.generate(captcha_text) audio_file="syit"+captcha_text+'.way' audio.write(captcha_text,audio_file)

Output:

