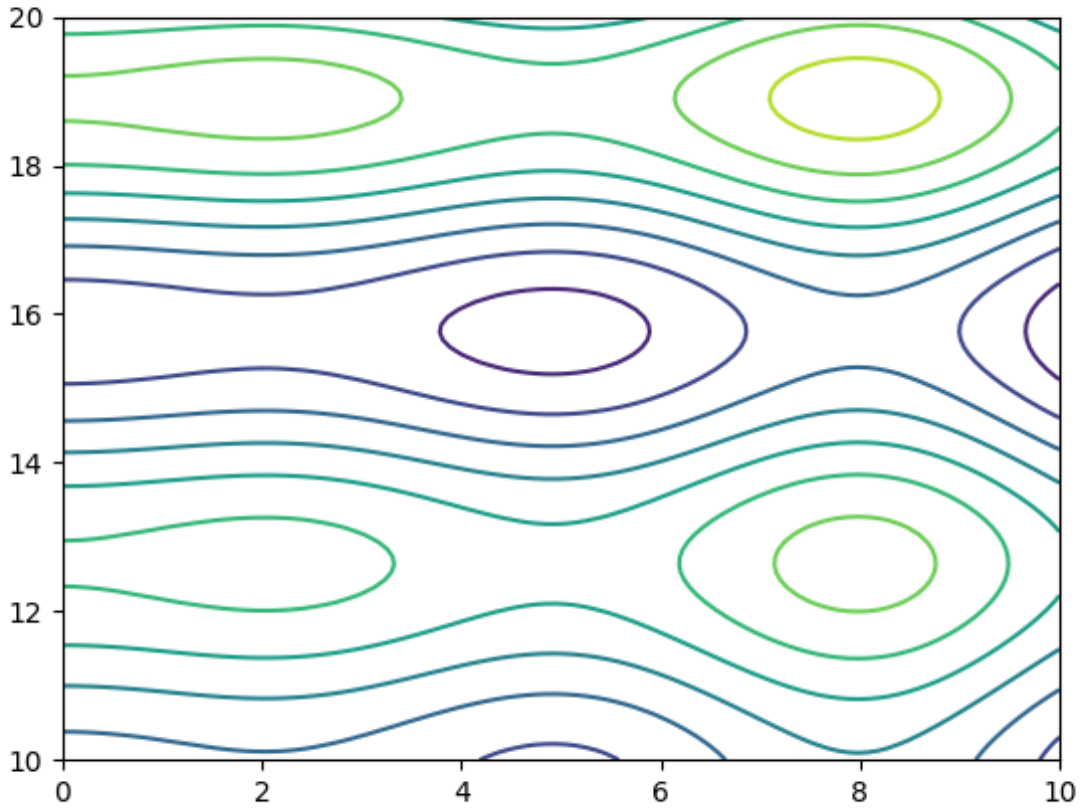
plt.contour function is use for creating contour maps. function plt.contour() takes 3 arguments, first for x grid, second for y grid and third for z grid. here x and y represents position on plot and z repersents contour levels.

```
import matplotlib.pyplot as plt
import numpy as np

x = np.linspace(0, 10, 100)
y = np.linespace(10, 20, 100)

#function meshgrid is used for building two-dimensional grid from one dimensional arrays.
#Data of z-grid must be 2d.
X, Y = np.meshgrid(x, y)
Z = X * np.sin(X) + Y * np.cos(Y)
plt.contour(X, Y, Z)
plt.show()
```



we can swith a contour plot in a filled contour by plt.contour function

#choose RdGy(Red-Grey) cmap for plotting it is not neccessary but for better look and understandable, you can use other cmaps(Sequential).

```
plt.contourf(X, Y, Z, cmap='RdGy')
plt.colobar(label='Contour levels')
plt.show()
```