Himmeblau

May 31, 2019

In [1]:
```
import numpy as np
import matplotlib as mpl
import matplotlib.pyplot as plt
import matplotlib.animation as animation
from scipy.optimize import fmin
```

In [2]:
```
def himmelblau(x):
    return (x[0]**2 + x[1] -11)**2 + (x[0] + x[1]**2 -7)**2
```

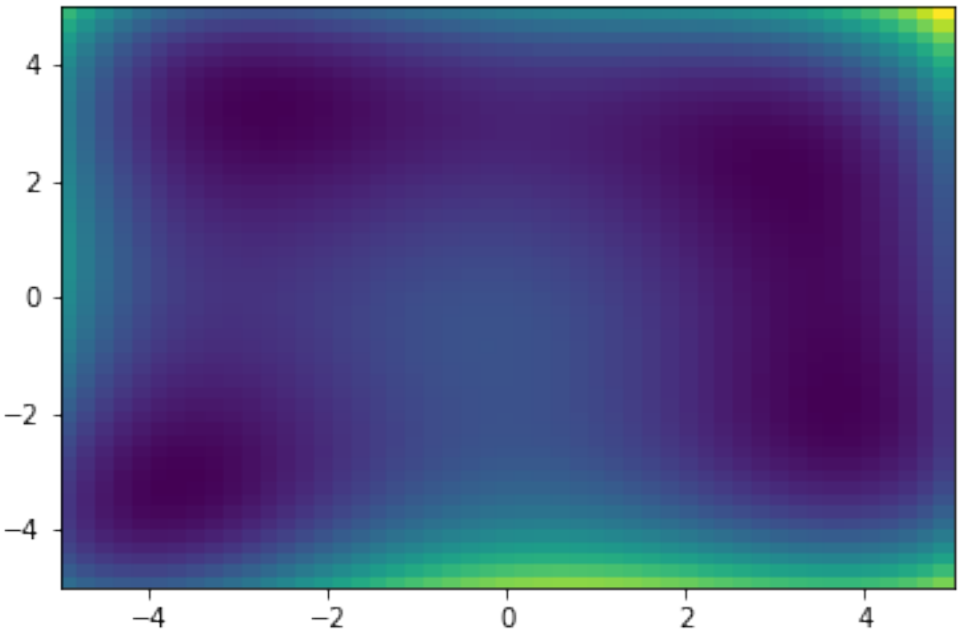
In [3]:
```
fig=plt.figure()
x = np.linspace(-5,5)
y = np.linspace(-5,5)
X,Y = np.meshgrid(x,y)

p = (-11, -7)

z= himmelblau((X,Y))

plt.pcolor(x,y,z)
```

Out[3]:
```
<matplotlib.collections.PolyCollection at 0x7efdfddbde10>
```


4
2
0
−2
−4
−4
−2
0
2
4