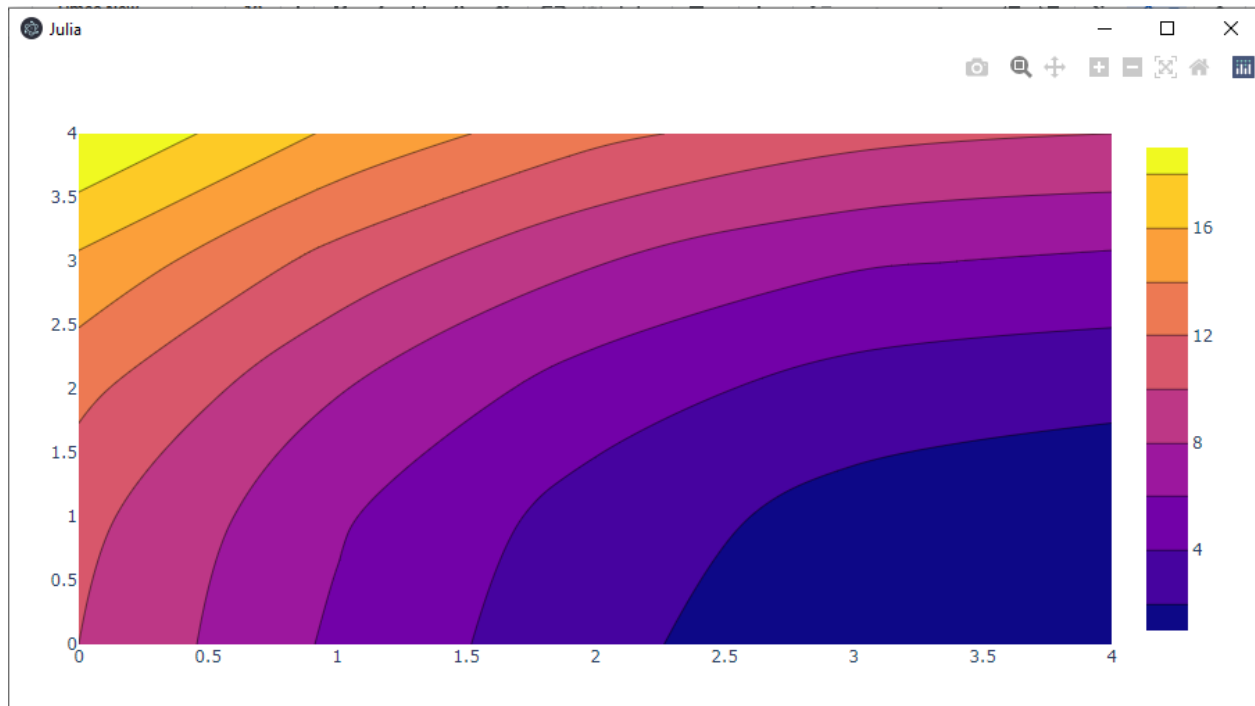# Practical No: 01

Aim: Implement Contour Plots.

Step1: Basic Contour Plots.

```
julia> using PlotlyJS
```

```
julia> plot(contour(
          z=[
            10      10.625    12.5      15.625    20
            5.625   6.25      8.125     11.25     15.625
            2.5     3.125     5.        8.125     12.5
            0.625   1.25      3.125     6.25      10.625
            0       0.625     2.5       5.625     10
          ]'
        ))
```
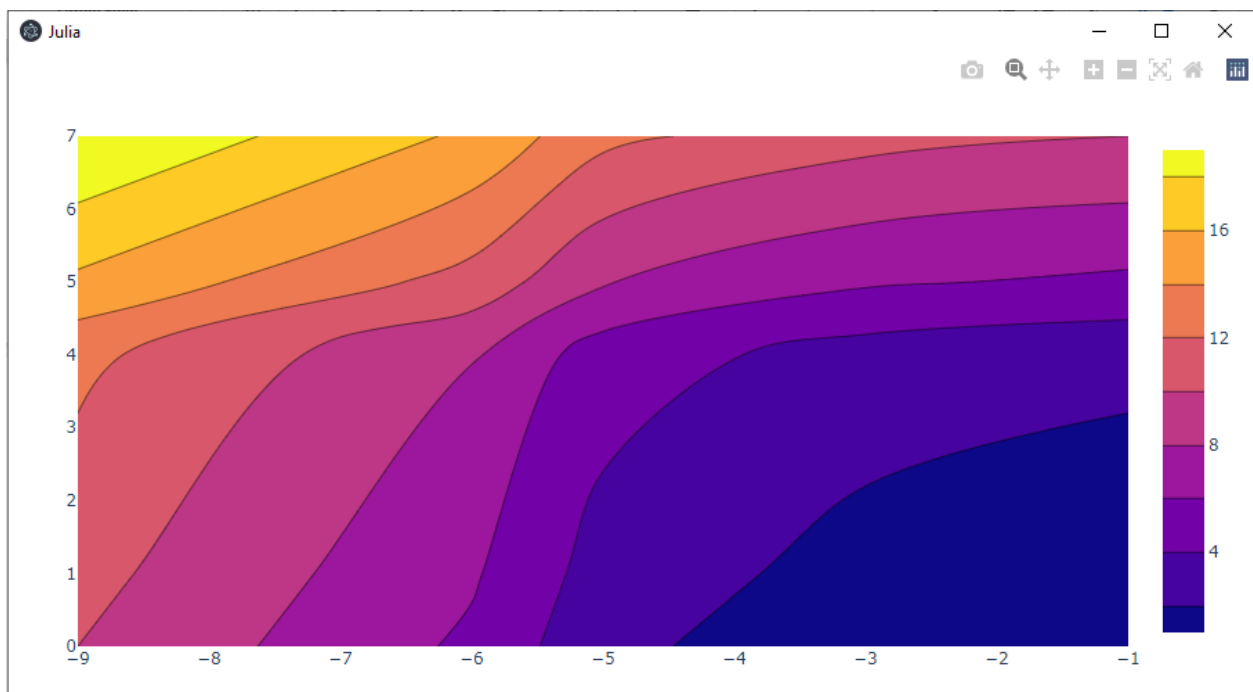
Step2: Setting the X and Y Coordinates in a Contour Plot

```julia
julia> using PlotlyJS

julia> plot(contour(
        x=[-9, -6, -5 , -3, -1], # horizontal axis
        y=[0, 1, 4, 5, 7], # vertical axis
        z=[
            10      10.625      12.5        15.625      20
            5.625   6.25        8.125       11.25       15.625
            2.5     3.125       5.          8.125       12.5
            0.625   1.25        3.125       6.25        10.625
            0       0.625       2.5         5.625       10
        ]'
    ))
```

Step 3: Colorscale for Contour Plot

```
julia> using PlotlyJS

julia> plot(contour(
         colorscale="hot",
         z=[
             10       10.625     12.5      15.625     20
             5.625    6.25       8.125     11.25      15.625
             2.5      3.125      5.        8.125      12.5
             0.625    1.25       3.125     6.25       10.625
             0        0.625      2.5       5.625      10
         ]'
       ))
```