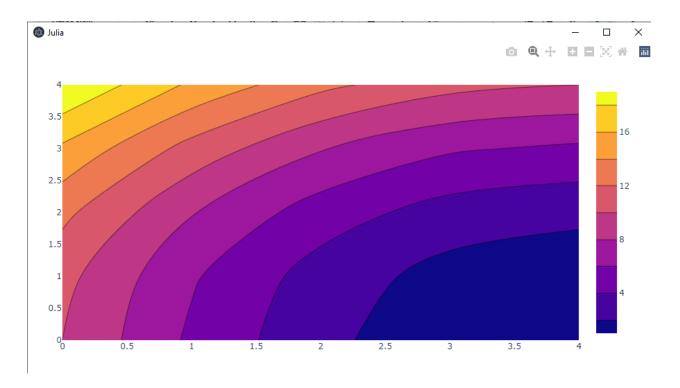
## **Practical No: 01**

## **Aim: Implement Contour Plots.**

Step1: Basic Contour Plots.

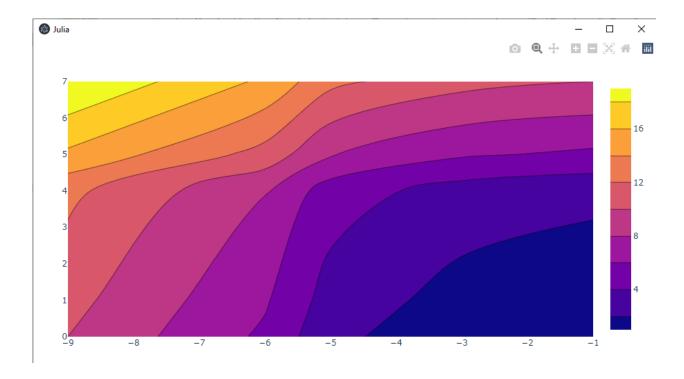
## julia> using PlotlyJS

```
julia> plot(contour(
                       10.625
                                    12.5
                                                           20
               10
                                                15.625
                        6.25
                                    8.125
                                                           15.625
               5.625
                                                11.25
               2.5
                        3.125
                                    5.
                                               8.125
                                                           12.5
               0.625
                        1.25
                                               6.25
                                                           10.625
                                    3.125
                        0.625
                                    2.5
                                               5.625
                                                           10
```



Step2: Setting the X and Y Coordinates in a Contour Plot

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



Step 3: Colorscale for Contour Plot

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

