

```

In[109]:= Plot3D[Re[Log[x + i y]], {x, -1, 1}, {y, -1, 1}, Mesh → False,
  RegionFunction → Function[{x, y, z}, 1 ≥ x2 + y2], PlotStyle → Opacity[0.4]
Plot3D[{Im[Log[x + i y] + 2 π i 0], Im[Log[x + i y] + 2 π i 1],
  Im[Log[x + i y] + 2 π i 2], Im[Log[x + i y] + 2 π i 3]}, {x, -1, 1}, {y, -1, 1}, PlotStyle →
  {{Blue, Opacity[0.4]}, {Red, Opacity[0.4]}, {Green, Opacity[0.4]}, {Orange, Opacity[0.4]}},
  RegionFunction → Function[{x, y, z}, 1 ≥ x2 + y2], Mesh → False]

```

