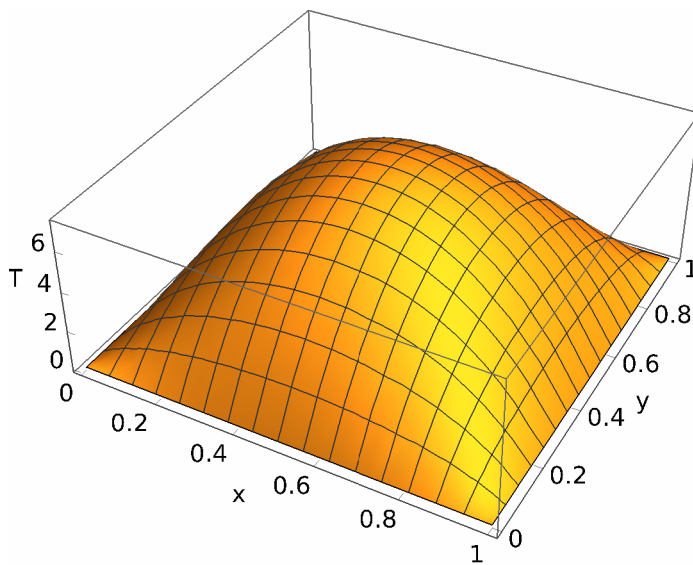```
In[1]:= s = NDSolve[
         {D[T[x, y, t], t] == D[T[x, y, t], {x, 2}] + D[T[x, y, t], {y, 2}] + 100,
            T[0, y, t] == 0, T[1, y, t] == 0 , T[x, 0, t] == 0, T[x, 1, t] == 0, T[x, y, 0] == 0},
         T,
         {x, 0, 1}, {y, 0, 1}, {t, 0, 10}
         ];
```

```
Plot3D[
  Evaluate[T[x, y, 0.5] /. s],
  {x, 0, 1}, {y, 0, 1},
  PlotRange → All,
  BaseStyle → {FontColor → "Black", FontSize → 12},
  AxesLabel → {"x", "y", "T"},
  Ticks → {{0, 0.2, 0.4, 0.6, 0.8, 1}, {0, 0.2, 0.4, 0.6, 0.8, 1}, {0, 2, 4, 6}}
  ]
```
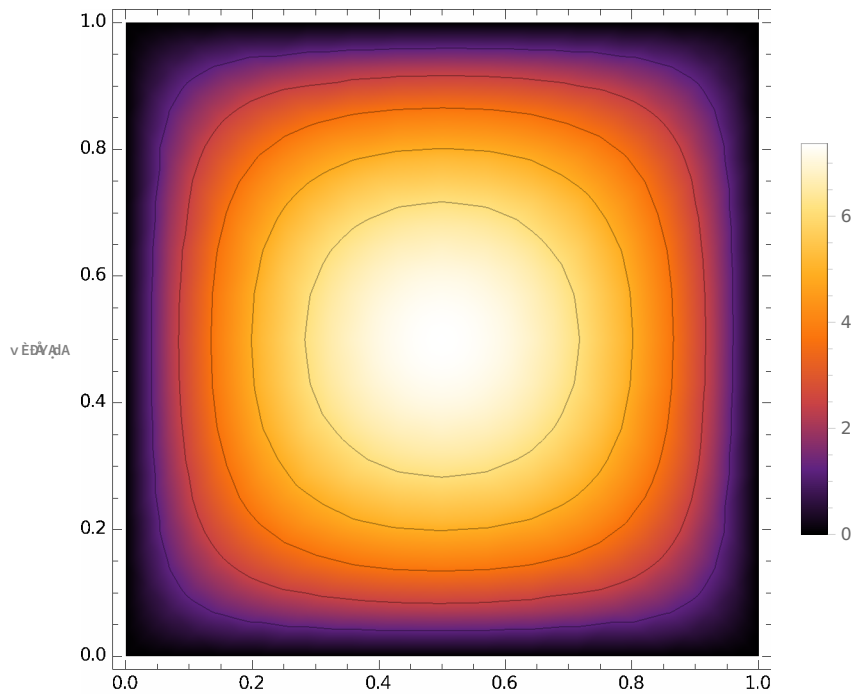


```
In[7]:=  func[x_, y_, t_] := (T[x, y, t] /. s);
```

In[8]:= `DensityPlot[`
`func[x, y, 50],`
`{x, 0, 1}, {y, 0, 1},`
`ColorFunction → ColorData["SunsetColors"],`
`MeshFunctions → {x + 3 &}, Mesh → 5,`
`PlotLegends → Automatic`
`]`

In[91]:= `Nx = 20;`
`Ny = 20;`
`Nt = 100;`

`dx = N[1 / Nx];`
`dy = N[1 / Ny];`
`dt = N[10 / Nt];`

`exportTable = ArrayReshape[Table[{x, y, t, func[x, y, t]},`
`    {x, 0, 1, dx}, {y, 0, 1, dy}, {t, 0, 10, dt}], {(Nx + 1) (Ny + 1) (Nt + 1), 4}];`

`Last[exportTable]`

`{1., 1., 10., 0.}`

`Export["num_solution.csv", exportTable]`

`num_solution.csv`

In[99]:= **CloudExport exportTable, "csv",**

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" EHN=. ; C>< MAMM LK PPPKPHE? K: F< EHN=K< HFH; O $_2$ Y $_0$ =Y? $_4$F $_0$ $_3$ = $_4$ FZ V $_0$ $_0$ F $_4$ > $_4$ $_4$ FY? XY; $_4$ $_2$: $_0$ $_4$ X $_3$ $_4$