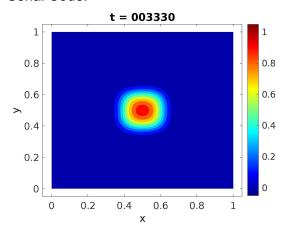
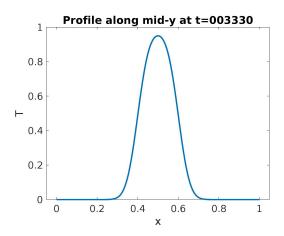
HW5 Report

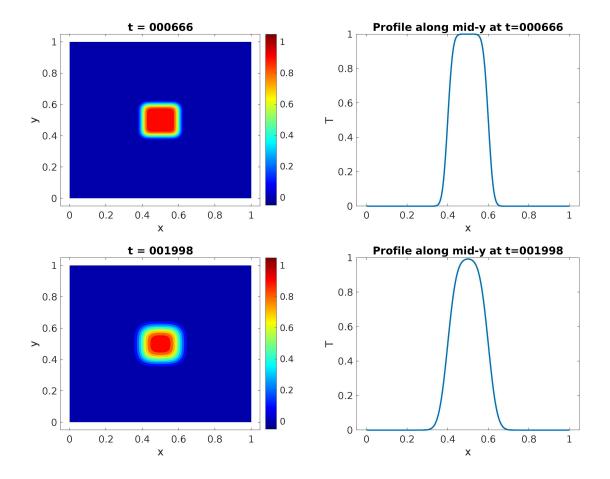
Question 1)

a)

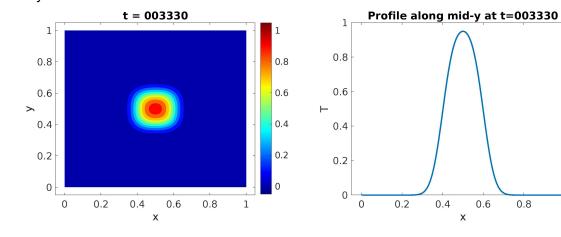
Serial Code:





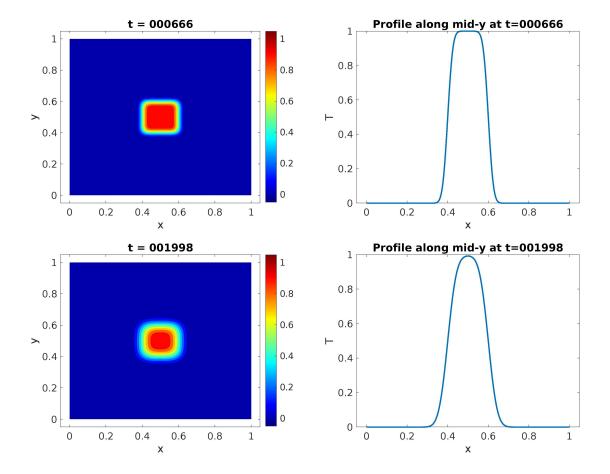


Parallel Code Contours: 2by2:

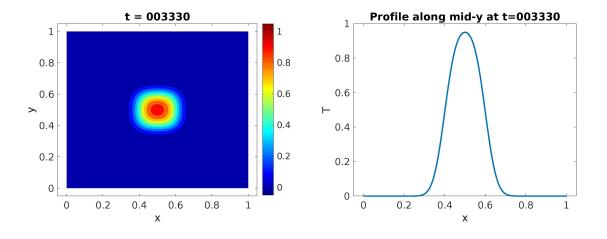


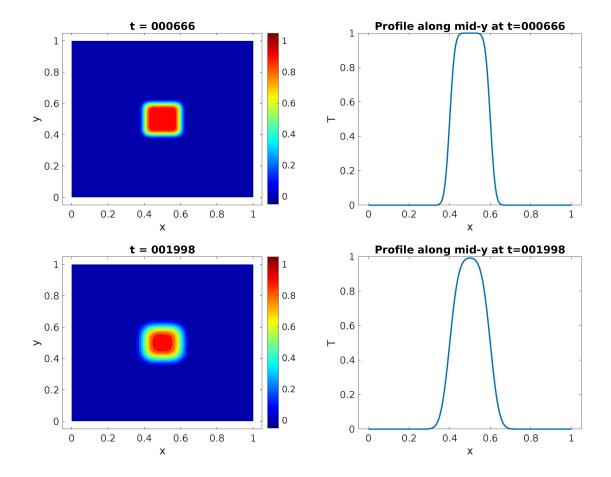
0.6

8.0

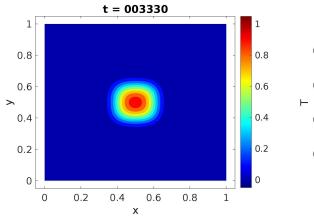


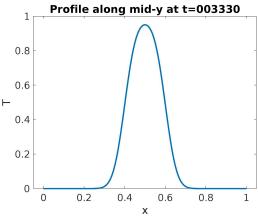
2by4:

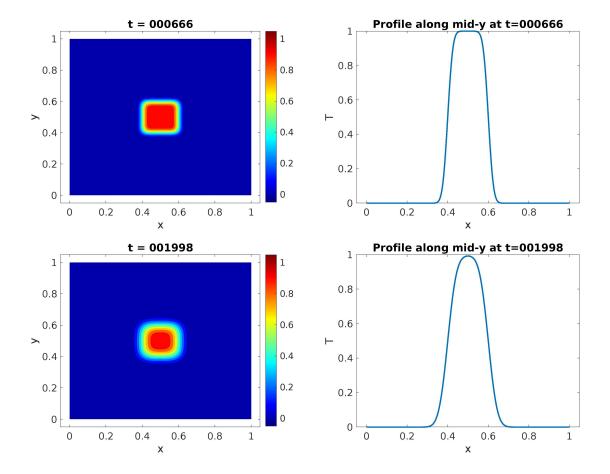




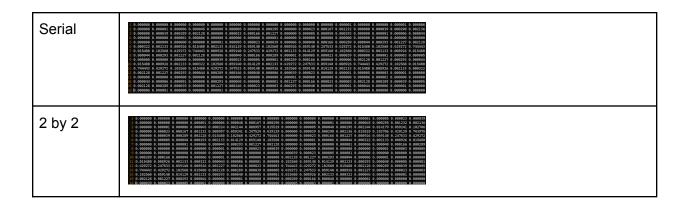


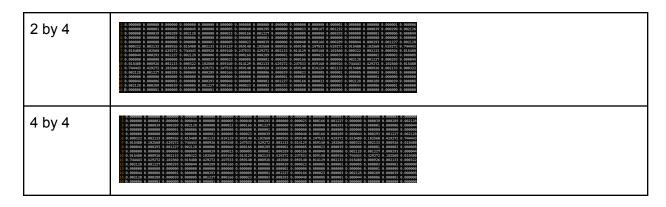






b)
Observing for a smaller matrix (16 by 16):





The difference is almost close to machine precision.

c)

Processors	Time Taken
Serial	0.018898
2 by 2	0.032050
2 by 4	0.040644
4 by 4	0.040726

Serial seems to be working faster. The communication overhead is more than the computational benefits of parallel processing.