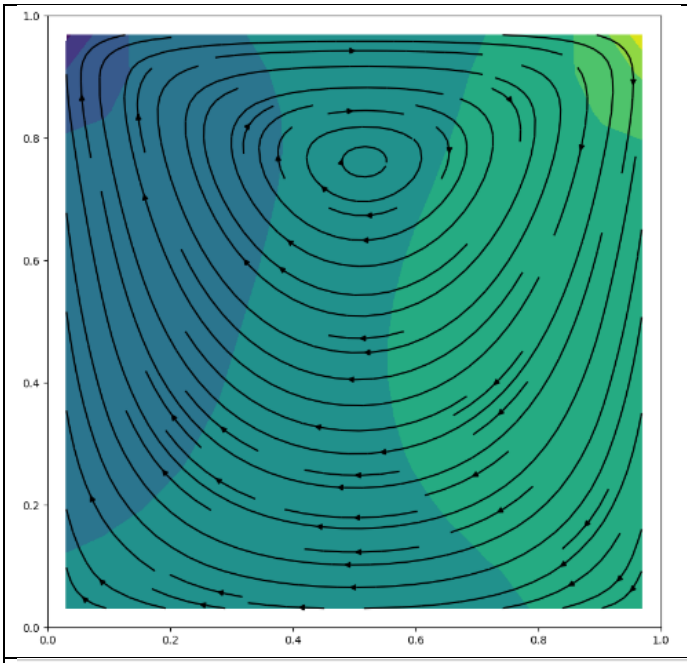
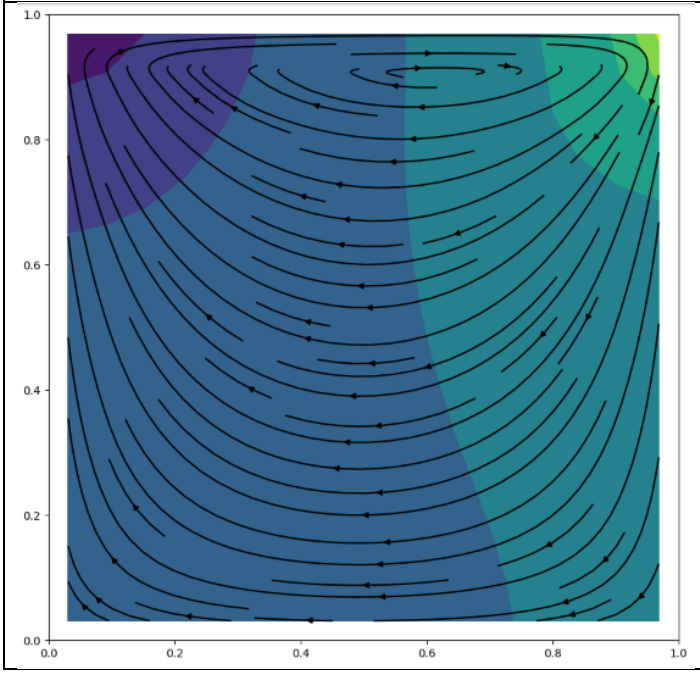
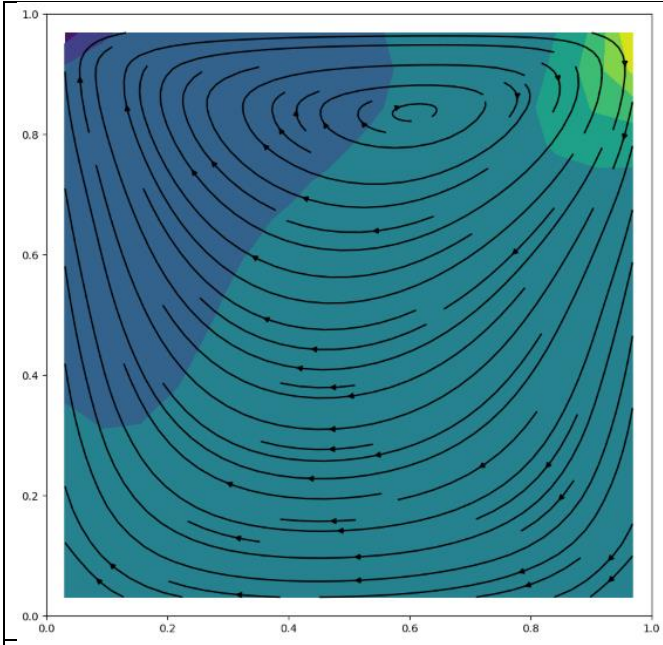
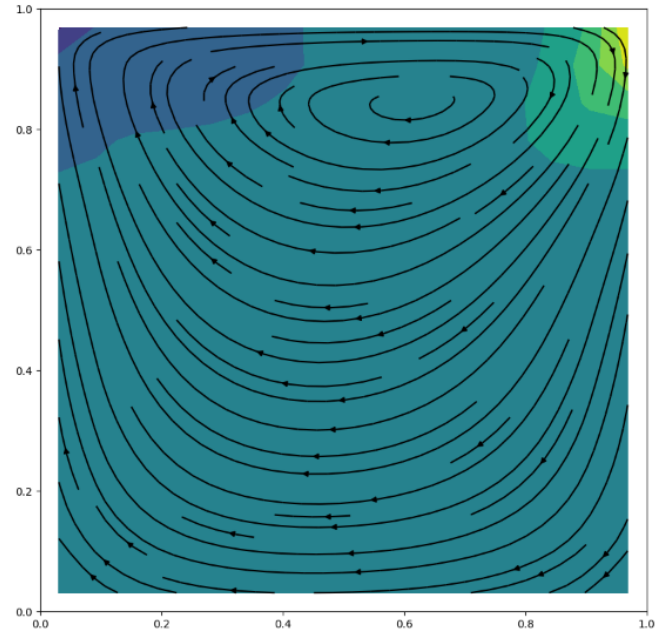
Удалова Е.С.

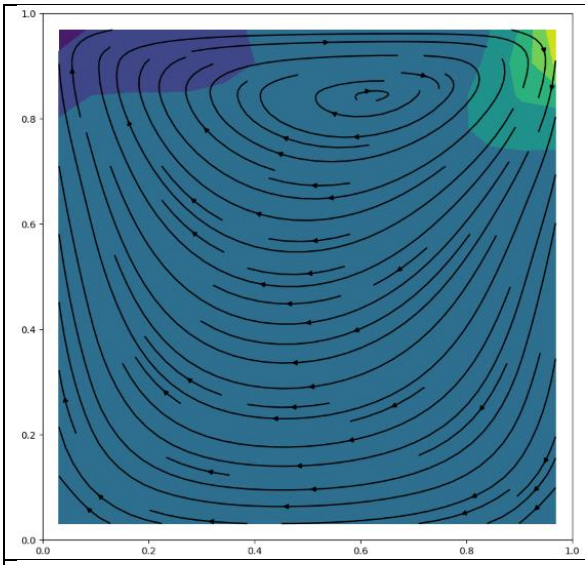
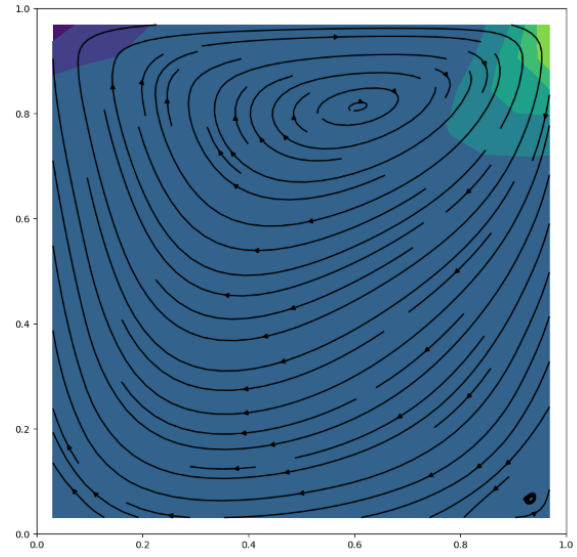
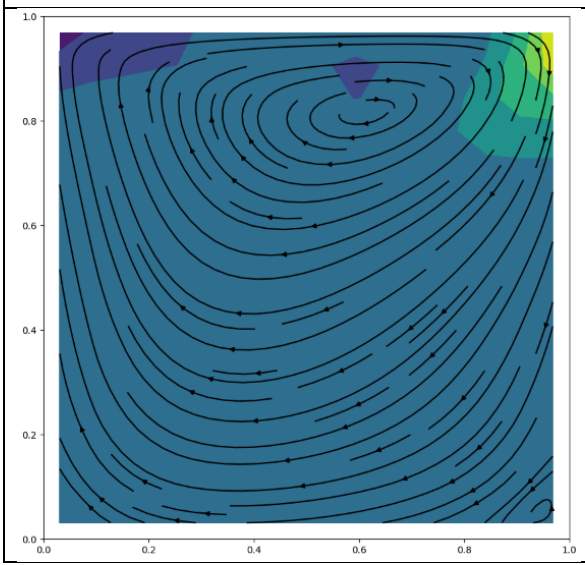
Отчет по задаче о каверне и метод SIMPLE

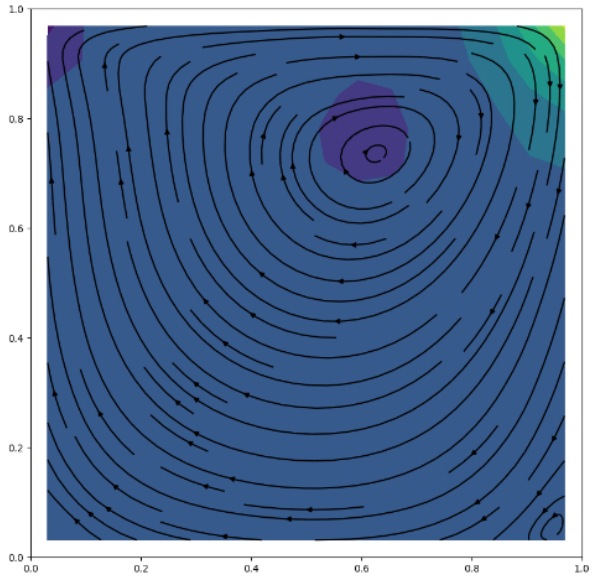
Изменение значений nu:

	N = 16 nu = 0.1 eps = 0.01 dt = 0.01 t = 0 T = 1
	N = 16 **nu = 0.01** eps = 0.01 dt = 0.1 t = 0 T = 1

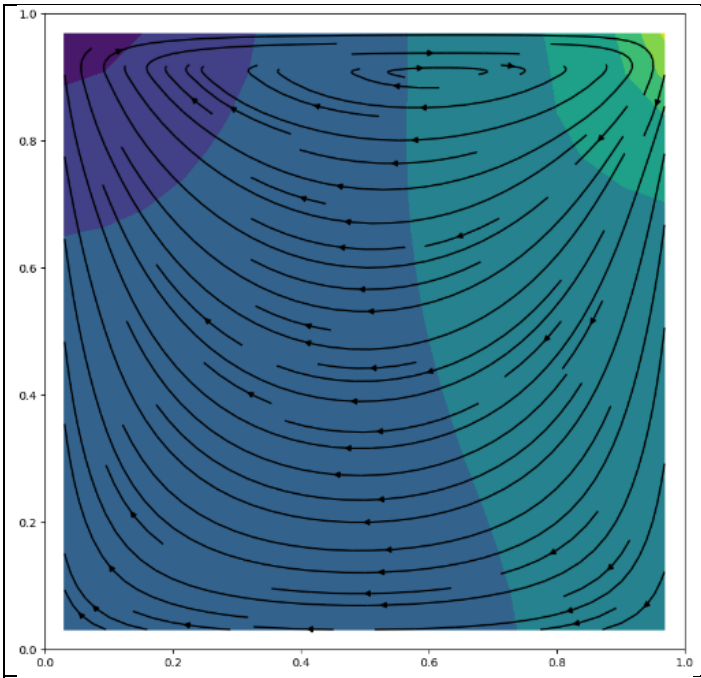
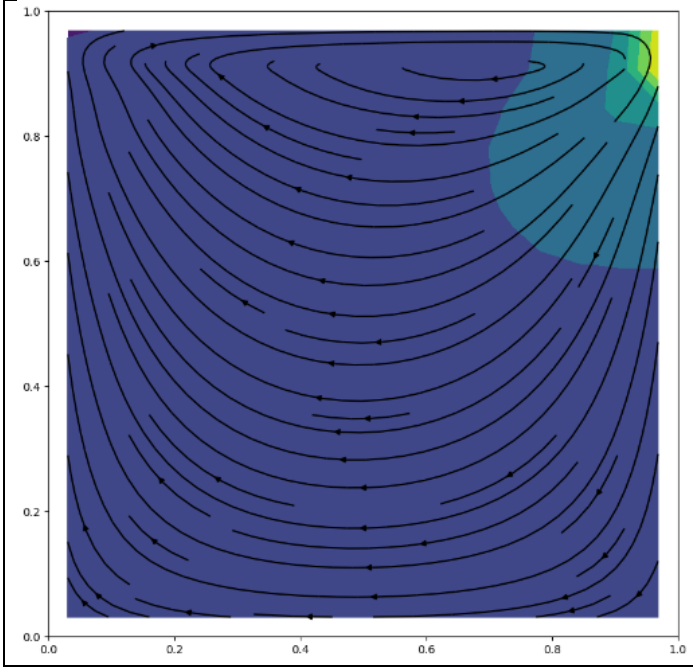
	N = 16 **nu = 0.001** eps = 0.01 dt = 0.1 t = 0 T = 1
	N = 16 **nu = 0.00089** eps = 0.01 dt = 0.1 t = 0 T = 1

Разные шаги по времени:

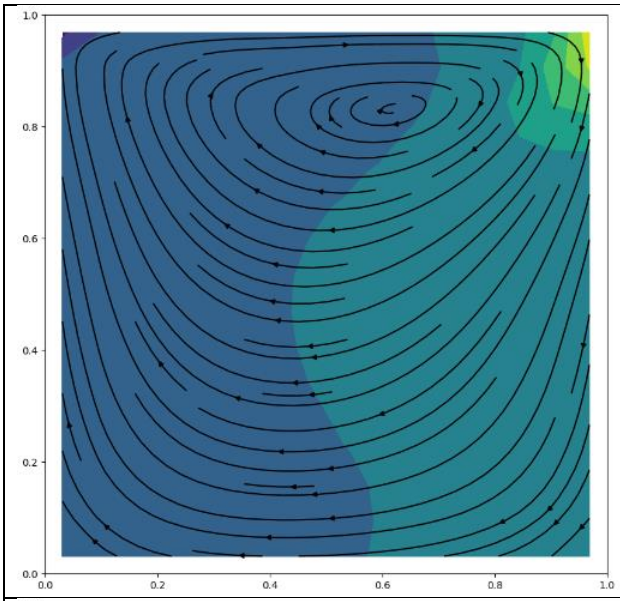
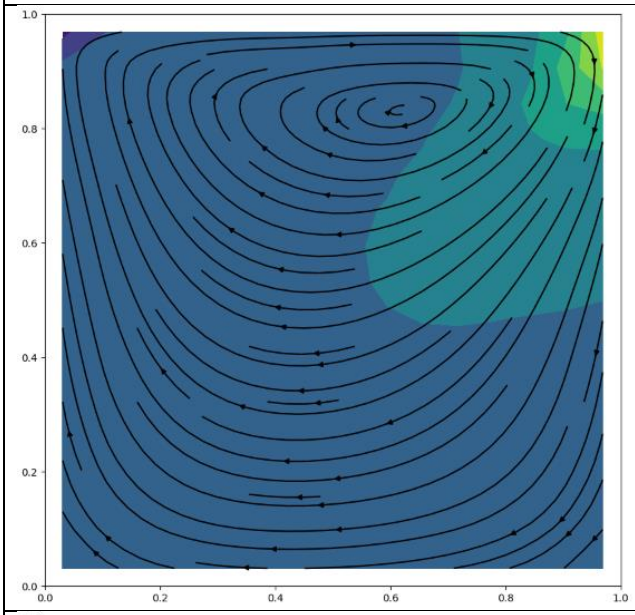
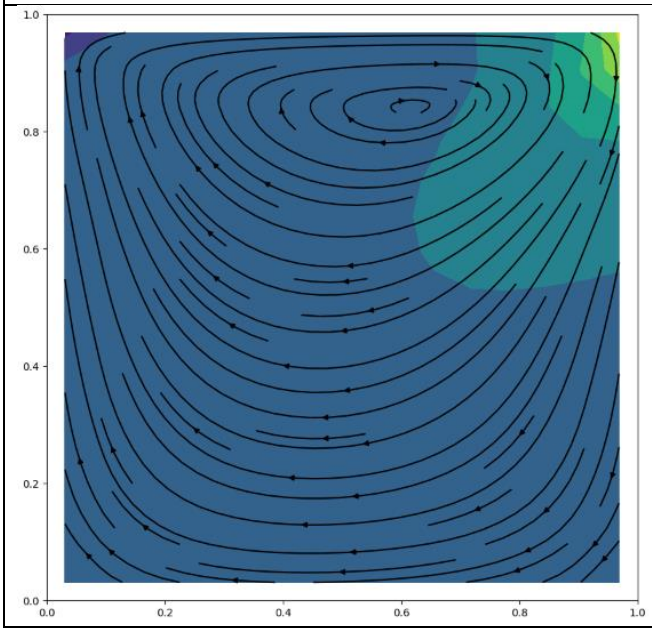
	N = 16 **nu = 0.00089** eps = 0.01 dt = 0.1 t = 0 T = 1
	N = 16 **nu = 0.00089** eps = 0.01 dt = 0.1 t = 0 T = 2
	N = 16 **nu = 0.00089** eps = 0.01 dt = 0.1 t = 0 T = 3

	N = 16 **nu = 0.00089** eps = 0.01 dt = 0.01 t = 0 T = 25

Изменение граничного условия

	Ux0 = 1 L = 1 N = 16 nu = 0.001 eps = 0.01 dt = 0.1 t = 0 T = 1
	Ux0 = 2 L = 1 N = 16 nu = 0.001 eps = 0.01 dt = 0.1 t = 0 T = 1

Использование релаксации:

	-
	p_new = p_new + 0.85 * p_differ
	p_new = p_new + 0.85 * p_differ u_new = a * u_new + (1 - a) * u_prev v_new = a * v_new + (1 - a) * v_prev