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```python
u0 = 1.7
v0 = 0
t_begin = 0
t_end = 20
f1 = open('de_data.txt','w')
f05 = open('de05_data.txt','w')
f01 = open('de01_data.txt','w')


f_error = open('de_error.txt','w')
```

```python
def solve(dt,f,eu):
    N = int((t_end-t_begin)/dt) + 1

    u = np.zeros(N)
    v = np.zeros(N)

    epsilon = np.zeros(N)
    t = np.linspace(t_begin,t_end,N)

    u_eu = np.zeros(eu+1)
    v_eu = np.zeros(eu+1)

    #
    u_a = np.zeros(N)
    u_a[:] = u0* np.cos(t)

    u_eu[0] = u0
```

v_eu[0] = v0

t3,eps3= solve(0.1,f0.1,1.0)

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