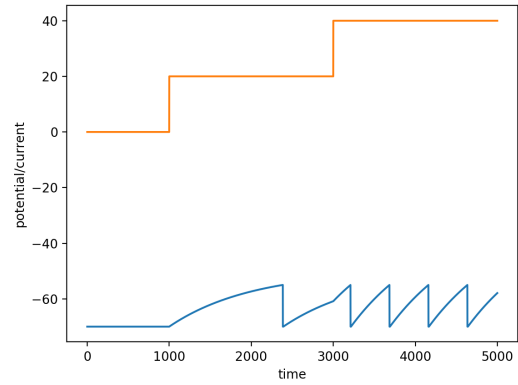
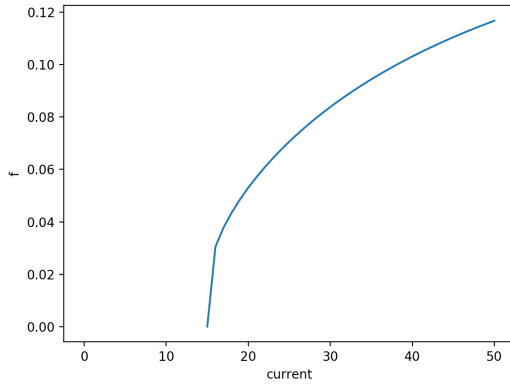


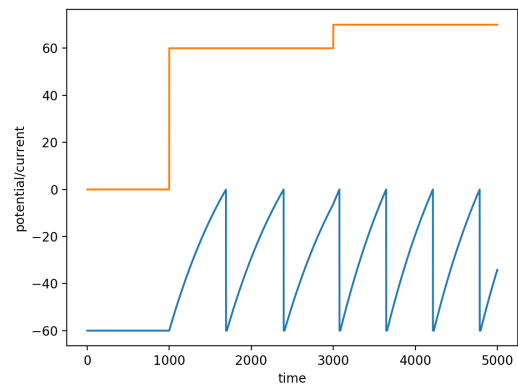
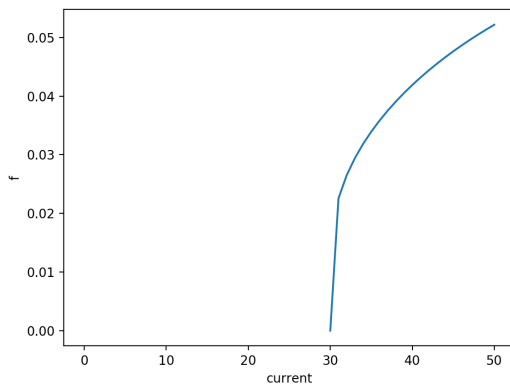
## بسمه تعالی

قسمت اول:

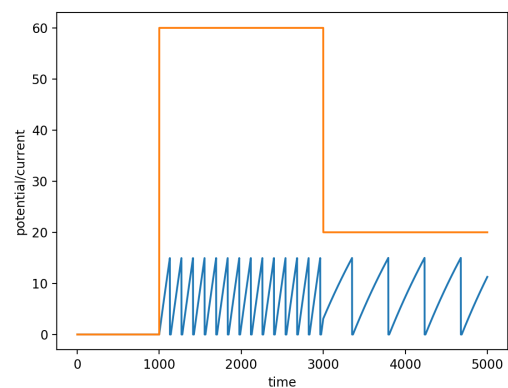
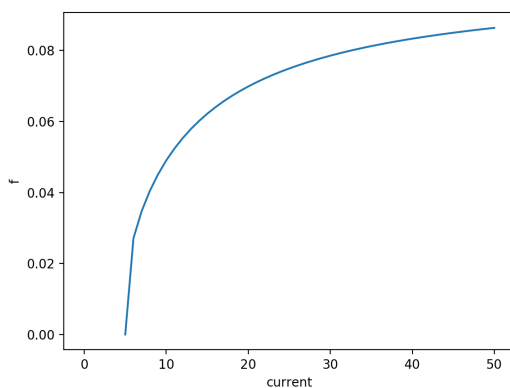
$R = 1$ ,  $C = 10$ ,  $\text{reset\_delay} = 5$ ,  $u_{\text{rest}} = -70$ ,  $u_{\text{threshold}} = -55$   
 $\text{duration} = 5\text{sec}$ ,  $\text{current} = [0, 20, 20, 40, 40]$  (for each second)



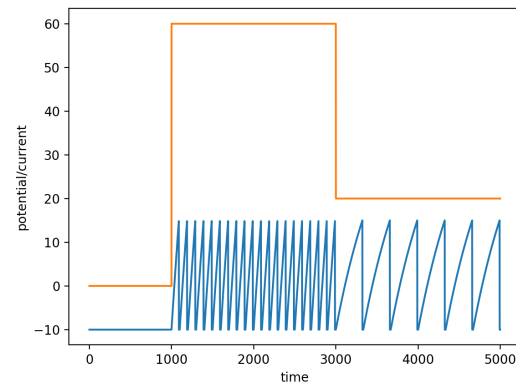
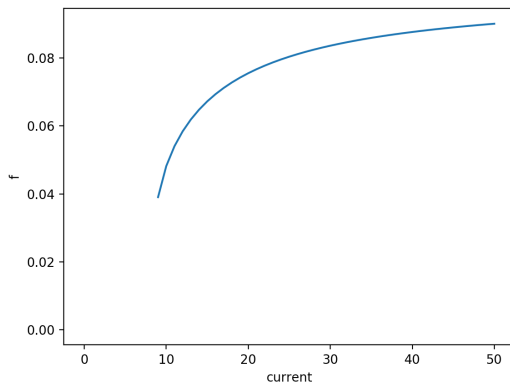
$R = 2$ ,  $C = 5$ ,  $\text{reset\_delay} = 10$ ,  $u_{\text{rest}} = -60$ ,  $u_{\text{threshold}} = 0$   
 $\text{duration} = 5\text{sec}$ ,  $\text{current} = [0, 60, 60, 70, 70]$  (for each second)



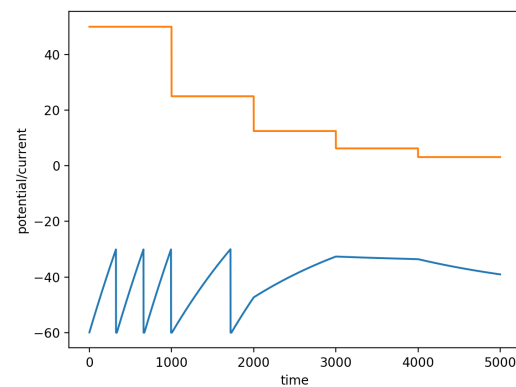
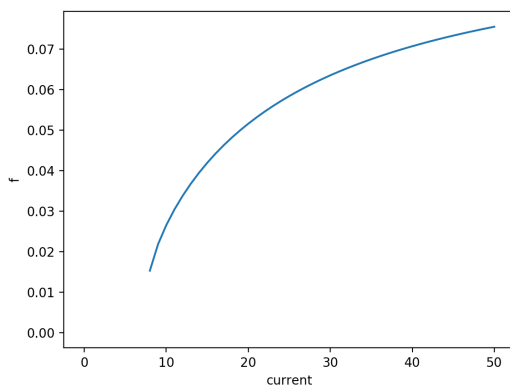
$R = 3$ ,  $C = 5$ ,  $\text{reset\_delay} = 10$ ,  $u_{\text{rest}} = 0$ ,  $u_{\text{threshold}} = 15$   
 $\text{duration} = 5\text{sec}$ ,  $\text{current} = [0, 60, 60, 20, 20]$  (for each second)



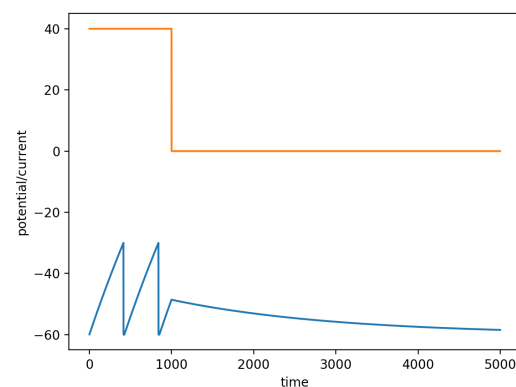
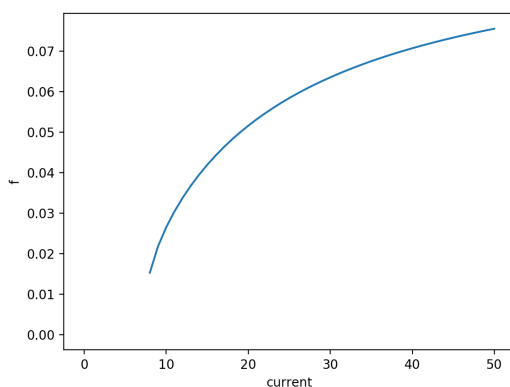
$R = 3$ ,  $C = 2$ ,  $\text{reset\_delay} = 10$ ,  $u_{\text{rest}} = -10$ ,  $u_{\text{threshold}} = 15$   
 duration = 5sec, current = [0, 60, 60, 20, 20] (for each second)



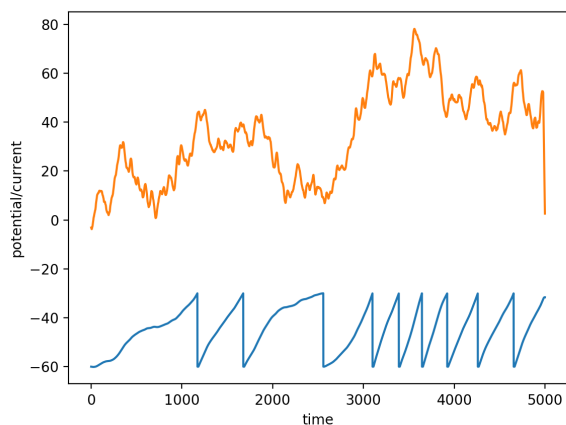
$R = 4$ ,  $C = 5$ ,  $\text{reset\_delay} = 10$ ,  $u_{\text{rest}} = -60$ ,  $u_{\text{threshold}} = -30$   
 duration = 5sec, current = [50, 25, 12.5, 6.25, 3.125] (for each second)



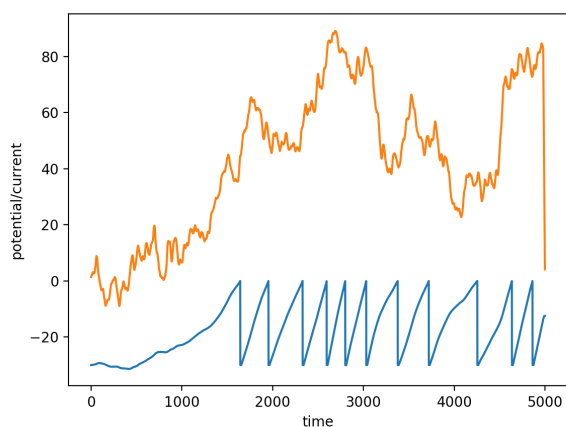
$R = 4$ ,  $C = 5$ ,  $\text{reset\_delay} = 10$ ,  $u_{\text{rest}} = -60$ ,  $u_{\text{threshold}} = -30$   
 duration = 5sec, current = [50, 0, 0, 0, 0] (for each second)



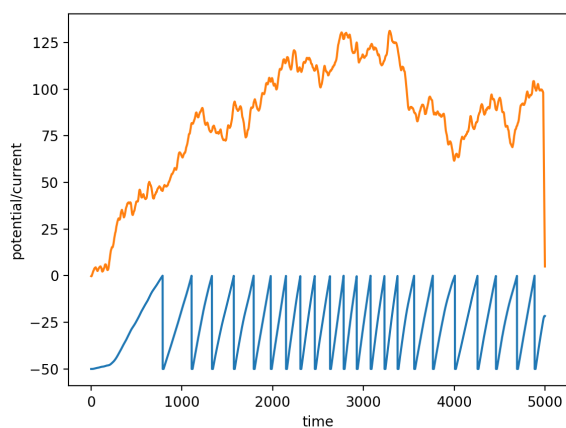
## قسمت دوم:



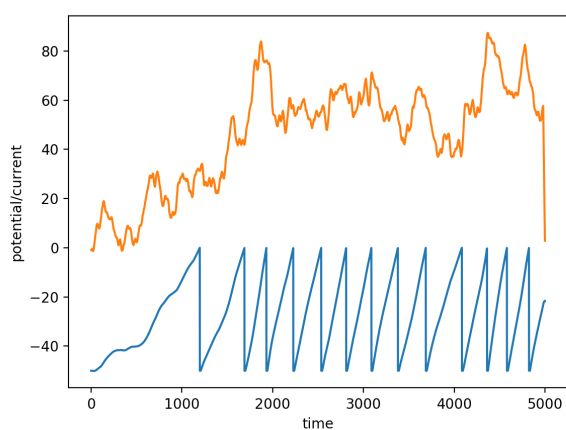
$R = 4, C = 5, \text{reset\_delay} = 10$   
 $u_{\text{rest}} = -60, u_{\text{threshold}} = -30$   
 $\text{duration} = 5$



$R = 2, C = 5, \text{reset\_delay} = 10$   
 $u_{\text{rest}} = -30, u_{\text{threshold}} = 0$   
 $\text{duration} = 5$



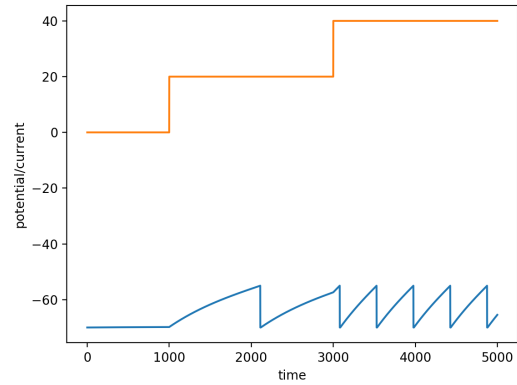
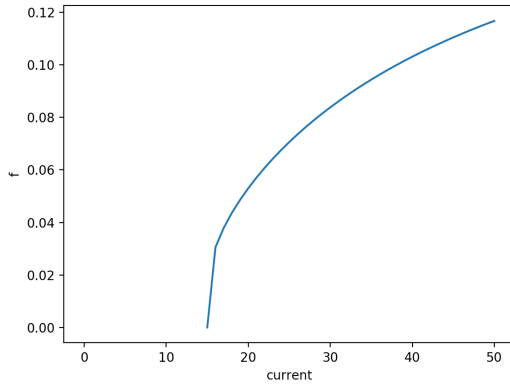
$R = 2, C = 3, \text{reset\_delay} = 10$   
 $u_{\text{rest}} = -50, u_{\text{threshold}} = 0$   
 $\text{duration} = 5$



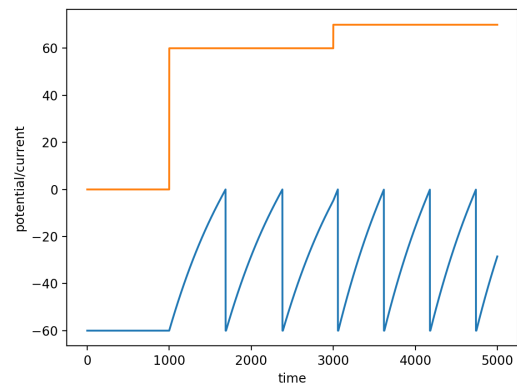
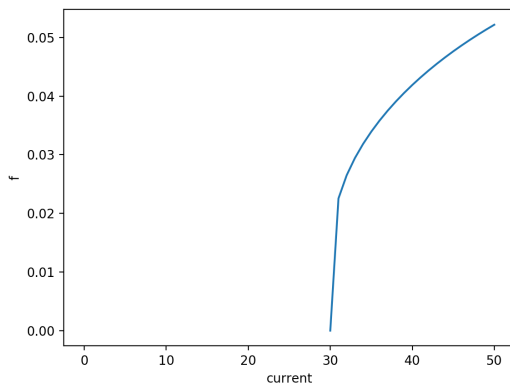
$R = 6, C = 3, \text{reset\_delay} = 10$   
 $u_{\text{rest}} = -50, u_{\text{threshold}} = 0$   
 $\text{duration} = 5$

## قسمت سوم:

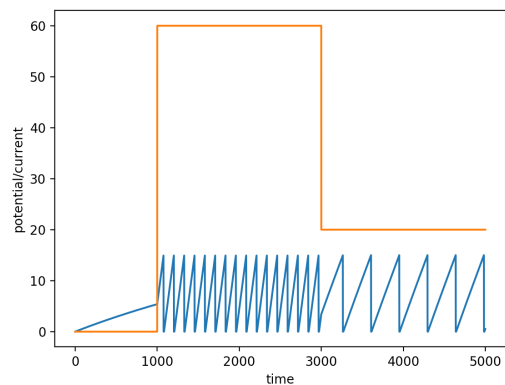
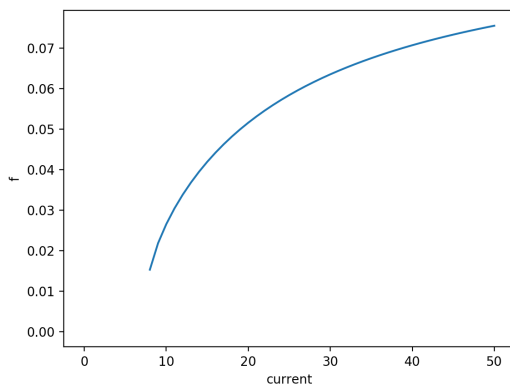
$R = 1$ ,  $C = 10$ ,  $\text{reset\_delay} = 5$ ,  $u_{\text{rest}} = -70$ ,  $u_{\text{threshold}} = -55$ ,  $\text{sharpness} = 5$   
 $\text{duration} = 5\text{sec}$ ,  $\text{current} = [0, 20, 20, 40, 40]$  (for each second)

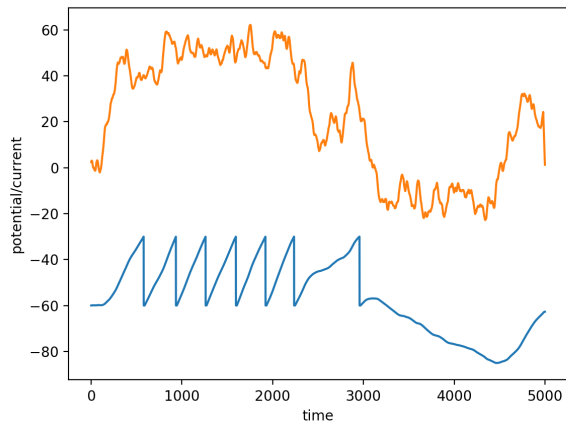


$R = 2$ ,  $C = 5$ ,  $\text{reset\_delay} = 10$ ,  $u_{\text{rest}} = -60$ ,  $u_{\text{threshold}} = 0$ ,  $\text{sharpness} = 5$   
 $\text{duration} = 5\text{sec}$ ,  $\text{current} = [0, 60, 60, 70, 70]$  (for each second)

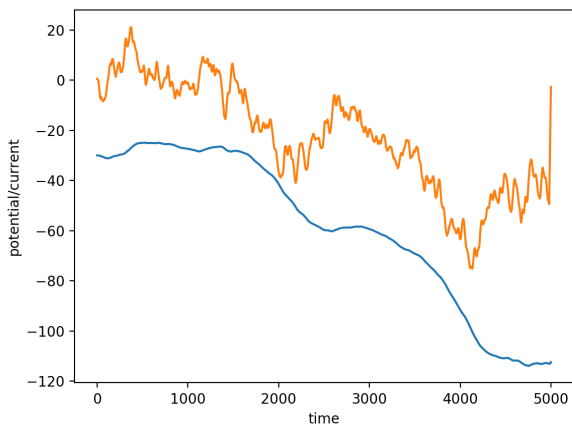


$R = 3$ ,  $C = 5$ ,  $\text{reset\_delay} = 10$ ,  $u_{\text{rest}} = 0$ ,  $u_{\text{threshold}} = 15$ ,  $\text{sharpness} = 20$   
 $\text{duration} = 5\text{sec}$ ,  $\text{current} = [0, 60, 60, 20, 20]$  (for each second)

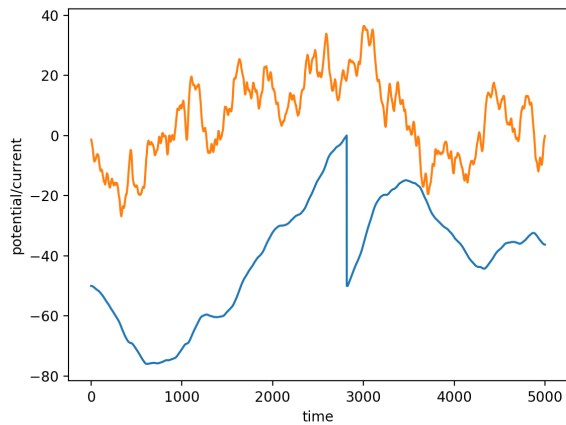




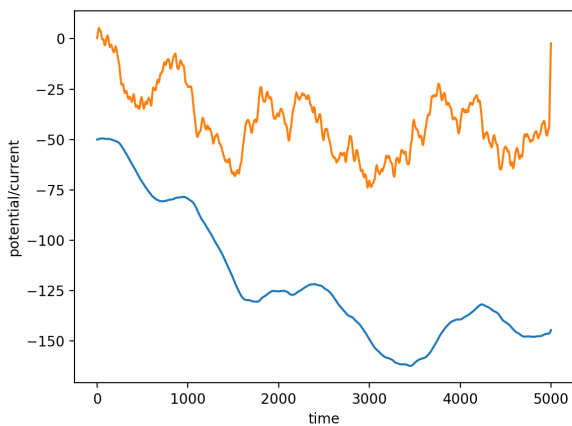
$R = 4, C = 5, \text{reset\_delay} = 10$   
 $u_{\text{rest}} = -60, u_{\text{threshold}} = -30$   
 $\text{duration} = 5, \text{sharpness} = 2$



$R = 2, C = 5, \text{reset\_delay} = 10$   
 $u_{\text{rest}} = -30, u_{\text{threshold}} = 0$   
 $\text{duration} = 5, \text{sharpness} = 2$



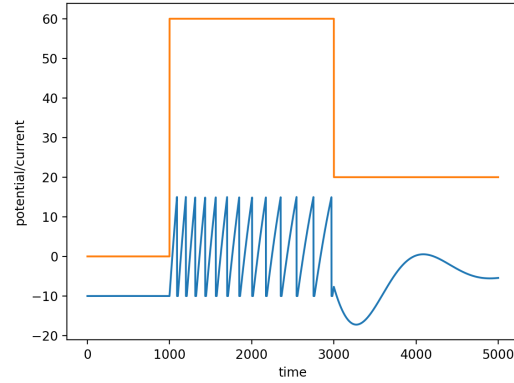
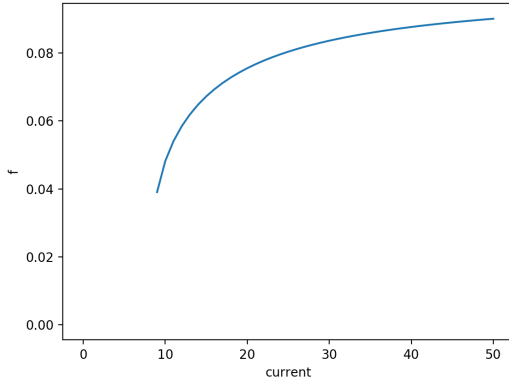
$R = 6, C = 3, \text{reset\_delay} = 10$   
 $u_{\text{rest}} = -50, u_{\text{threshold}} = 0$   
 $\text{duration} = 5, \text{sharpness} = 10$



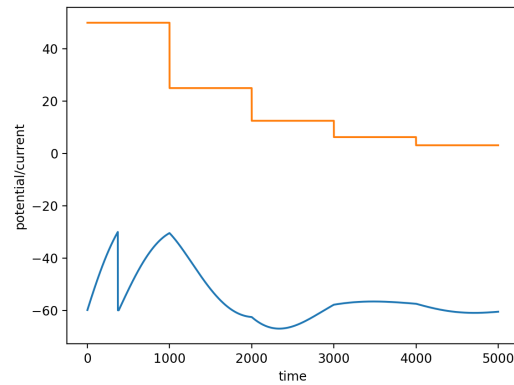
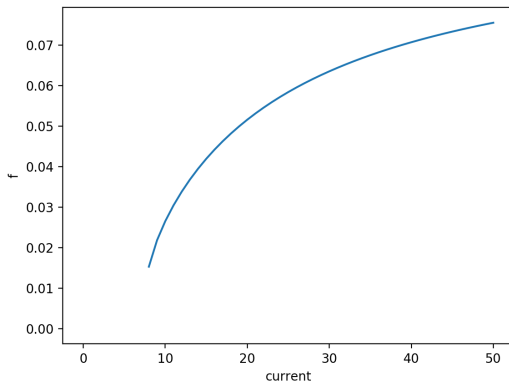
$R = 2, C = 3, \text{reset\_delay} = 10$   
 $u_{\text{rest}} = -50, u_{\text{threshold}} = 0$   
 $\text{duration} = 5, \text{sharpness} = 1$

## قسمت چهارم:

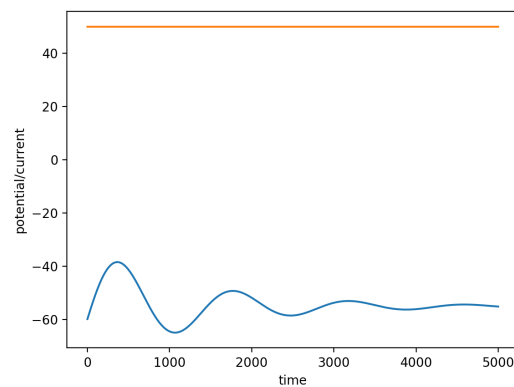
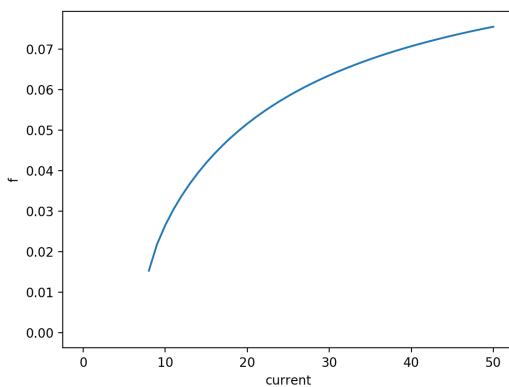
$R = 3$ ,  $C = 2$ ,  $\text{reset\_delay} = 10$ ,  $u_{\text{rest}} = -10$ ,  $u_{\text{threshold}} = 15$ ,  $\text{sharpness} = 5$   
 $\text{duration} = 5\text{sec}$ ,  $\text{current} = [0, 60, 60, 20, 20]$  (for each second),  $a=3$ ,  $b=10$ ,  $\tau_k=10$



$R = 4$ ,  $C = 5$ ,  $\text{reset\_delay} = 10$ ,  $u_{\text{rest}} = -60$ ,  $u_{\text{threshold}} = -30$ ,  $\text{sharpness} = 5$   
 $\text{duration} = 5\text{sec}$ ,  $\text{current} = [50, 25, 12.5, 6.25, 3.125]$  (for each second),  $a=3$ ,  $b=10$ ,  $\tau_k=10$

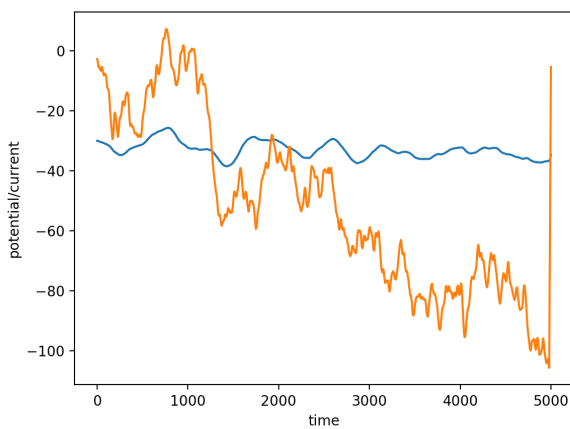


$R = 4$ ,  $C = 5$ ,  $\text{reset\_delay} = 10$ ,  $u_{\text{rest}} = -60$ ,  $u_{\text{threshold}} = -30$ ,  $\text{sharpness} = 5$   
 $\text{duration} = 5\text{sec}$ ,  $\text{current} = [50, 50, 50, 50, 50]$  (for each second),  $a=10$ ,  $b=20$ ,  $\tau_k=10$

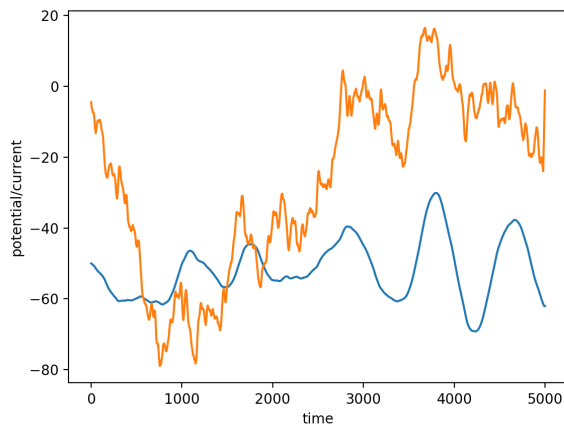




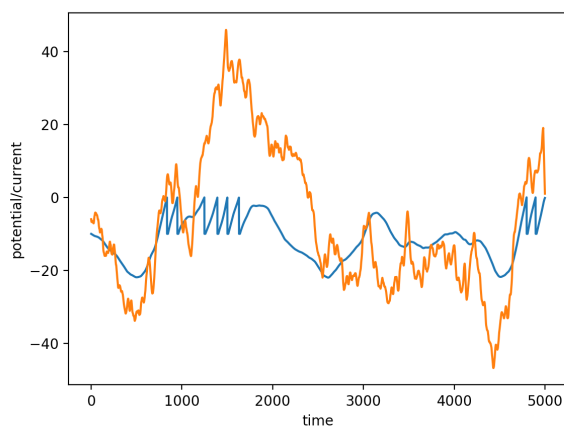
$R = 4, C = 5, \text{reset\_delay} = 10$   
 $u_{\text{rest}} = -60, u_{\text{threshold}} = -30$   
 $\text{duration} = 5, \text{sharpness} = 2$   
 $a=10, b=20, \tau_k=10$



$R = 2, C = 5, \text{reset\_delay} = 10$   
 $u_{\text{rest}} = -30, u_{\text{threshold}} = 0$   
 $\text{duration} = 5, \text{sharpness} = 4$   
 $a=20, b=7, \tau_k=5$



$R = 6, C = 3, \text{reset\_delay} = 10$   
 $u_{\text{rest}} = -50, u_{\text{threshold}} = 0$   
 $\text{duration} = 5, \text{sharpness} = 10$   
 $a=15, b=15, \tau_k=10$



$R = 2, C = 3, \text{reset\_delay} = 10$   
 $u_{\text{rest}} = -10, u_{\text{threshold}} = 0$   
 $\text{duration} = 5, \text{sharpness} = 10$   
 $a=10, b=20, \tau_k=10$