FUNCTION *With_IO_spike*(potential_to_add):

Declaration

$V_{initial}$ = -75. #Parameter, float

Threshold = -65. #Parameter, float

V_{add} = potential_to_add #Parameter, float

Start

$V_{membrane}$ = $V_{initial}$ + potential_to_add #Variable, float

If ($V_{membrane}$ >= Threshold):

return TRUE

else:

return FALSE

EndFunction

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MainProgram *Main(potential_to_add):*

Declaration

V_{add} = potential_to_add #Parameter, float

Start

spike = with_IO_spike(V_{add}) #Variable, bool

print(“The neuron spiked: “, spike)

End