A Fully connected layer has 100 neurons at input and 100 neurons at output. The number of parameters to learn is:

(Assume there is no bias.)

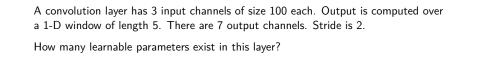
- (A) 1000
- (B) **[Ans]** 10000
- (C) 200
- (D) 50
- (E) None of the above

- A convolutional layer has 100 inputs and 100 outputs there is sufficient zero padding. The number of learnable parameters is:
- (A) 10
- (B) 3
- (C) 5
- (D) 1
- (E) [Ans] Any of the above

A convolutional layer has 100 inputs and 5 channels of 100 outputs there with sufficient zero padding. The number of learnable parameters is: Each output channel is computed with 7 learnable weights.

Total number of learnable parameters is:

- (A) 7
- (B) 5
- (C) 12
- (D) **[Ans]** 35
- (E) None of the above



We know that if there is no zero padding, the convolution output is smaller than the original. Consider an input of size/length 100. Convolution is carried over a window

of length 7 with stride of 1. What is the length/size of output?