$$X \sim 6 \times 6 \times 1$$

 $f \sim 3 \times 3 \times 1$

How many Parameters are there in the Kernel?

$$(3 \times 3 \times 1) + 1 = 10$$

Shape of width of the filter* shape of height of the filter*

 $((m \times n \times d) + 1) \times K$

number of filters in the previous layer.

$$2: \begin{bmatrix} 16 & 9 & -4 & -18 \\ 17 & -5 & -10 & -12 \\ 11 & -9 & -17 & 2 \\ 9 & -1 & -15 & 16 \end{bmatrix}$$

2: | 16 9 -4 -18 | We perform the Convolution operation by sliding | 17 -5 -10 -12 | the filter over the input. At every location, we | 11 -9 -17 2 | do element-wise matrix multiplication and sum | 9 -1 -15 16 |

instead of summation the regult we choose

Question 3 - Mahyar Mahmoudi - 120397233