| SL.No | | Activation Shape | Activation Size | # Parameters |
|-------|------------------|------------------|-----------------|--------------|
| 1. | Input Layer: | (32, 32, 3) | 3072 | 0 |
| 2. | CONV1 (f=5, s=1) | (28, 28, 8) | 6272 | 608 |
| 3. | POOL1 | (14, 14, 8) | 1568 | 0 |
| 4. | CONV2 (f=5, s=1) | (10, 10, 16) | 1600 | 3216 |
| 5. | POOL2 | (5, 5, 16) | 400 | 0 |
| 6. | FC3 | (120, 1) | 120 | 48120 |
| 7. | FC4 | (84, 1) | 84 | 10164 |
| 8. | Softmax | (10, 1) | 10 | 850 |

hight.size them (AGB)

Plapet -> Edoved image with size 32 > 32 = 3

ACHIVATION Size = 8277243 = 3072 width size

② COVV2 (filter Size = 5, stride = 1) and # filters = 8

output image Size = $\frac{32.5 + 2(0)}{1} = 28$ if activation shape (28, 28, 8) (activation Size = 28+19=8=617)

**Parameters = 5*5+3 * 8 = 608

B pool size = 2 : The oweput image = 28/2 = 14

Note: humber of filter will not charge

octivation shape (14, 14, 8)

activation size = 14, 14 * 8 = 1568

Q COVI (filter size = 5, stride = 1) and 4 filters = 16output image size = $\frac{14 \cdot 5 + 2(0)}{1} = 10$: activation shape (5, 5, 16) (activation size = $10 \cdot 10 \cdot 16 = 1600$ * parameters = $5 \cdot 5 \cdot 8 \cdot 16 + 16 = 3216$

pool size = 2 : The owner image = 10/2 = 5

Note: humber of filter will not charge
octivation shape (5,5,16)

activation size = 5*5*16 = 400

E * hidden hodes (120)

activation Size = 120 * 1 = 120

* parameters = 120 * 400 + 120 = 48120

from the previous layer

(2 * hidden hodes (84)

activation size = 84 * 1 = 84

* parameters = 84 * 120 + 84 = 10164

from the previous layer

parameter = $10 \times 84 + 10 = 850$ From the last layer