|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100 | 20 | 30 | 40 | 70 | 90 | 45 | 43 | 23 | 21 |
| 100 | 19 | 23 | 43 | 56 | 76 | 78 | 98 | 23 | 54 |
| 200 | 190 | 40 | 70 | 90 | 45 | 43 | 23 | 21 | 23 |
| 43 | 56 | 43 | 56 | 76 | 78 | 98 | 23 | 54 | 23 |
| 23 | 19 | 23 | 43 | 56 | 76 | 78 | 98 | 23 | 54 |
| 40 | 190 | 40 | 70 | 90 | 45 | 43 | 23 | 21 | 23 |
| 43 | 34 | 43 | 56 | 76 | 78 | 98 | 23 | 54 | 23 |
| 40 | 190 | 40 | 70 | 90 | 45 | 43 | 23 | 21 | 23 |

Fig: Image

|  |  |  |
| --- | --- | --- |
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 0 | 0 | 0 |

Fig: Kernal

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 19 | 23 | 43 | 45 | 76 | 78 | 98 | 23 | 0 |
| 0 | 190 | 40 | 70 | 90 | 45 | 43 | 23 | 21 | 0 |
| 0 | 56 | 43 | 56 | 76 | 78 | 98 | 23 | 54 | 0 |
| 0 | 19 | 23 | 43 | 56 | 76 | 78 | 98 | 23 | 0 |
| 0 | 190 | 40 | 70 | 90 | 45 | 43 | 23 | 21 | 0 |
| 0 | 34 | 43 | 56 | 76 | 78 | 98 | 23 | 54 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Fig: Convolved images

Image size = 8X10 as 2D

In 1D, 80

|  |  |  |
| --- | --- | --- |
| 1 | 0 | 1 |
| 0 | 1 | 0 |
| 1 | 0 | 1 |

Fig: Kernal