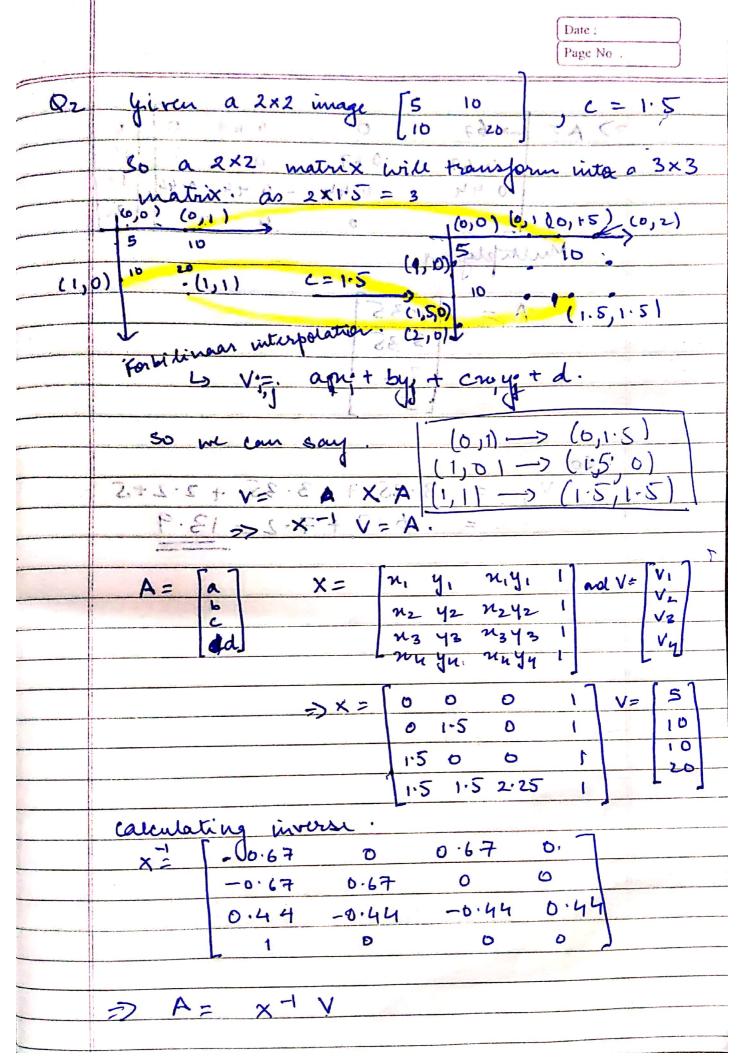
| 7           | Date:   |                         |  |  |  |  |
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|             |   | 0                       |  |  |  |  |
|             | DIP assignment  | Q2                      |  |  |  |  |
|             | Bignadratic Interpolation  ( $n_1, y_1$ ), $(n_2, y_2)$ ( $n_1, y_1$ ) $+ \frac{1}{2} + \frac{1}$ |                         |  |  |  |  |
| 0           | Riguadratic Interbolation   | 4                       |  |  |  |  |
|             | Let pur ple be (21, 141), (21, 141)   |                         |  |  |  |  |
|             | x/21/1/2 5.2 s.2 as no 4 ( 20 x/2)  | 9                       |  |  |  |  |
|             | V2(n2, 7) 2 Vole  | (150                    |  |  |  |  |
| N           | 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | (1)                     |  |  |  |  |
|             | so V(n, y)= a00 n°y° + a01 n°y′ a22 n°y°  |                         |  |  |  |  |
|             |   |                         |  |  |  |  |
|             | So V, ln, y, 1= a00 n, 4, + a01 n, y, a222, 4, 2  | 1 7                     |  |  |  |  |
|             | 50 1551) 11   |                         |  |  |  |  |
|             |   |                         |  |  |  |  |
|             |   | -7                      |  |  |  |  |
|             | 0   |                         |  |  |  |  |
|             | Vq(nq, yq) = a00 xq yq + azznq yq2  |                         |  |  |  |  |
|             | 55 77   | No.                     |  |  |  |  |
|             | so, we can vectorize mes expression.  | A Company of the second |  |  |  |  |
|             | so, we can very   |                         |  |  |  |  |
|             | PV, 7 [x, \y, n,y,  |                         |  |  |  |  |
|             |   |                         |  |  |  |  |
|             | V2 12 42 1242   |                         |  |  |  |  |
|             | N 3 43 '  |                         |  |  |  |  |
|             |   |                         |  |  |  |  |
| <del></del> |   |                         |  |  |  |  |
|             | Va J na va maya   |                         |  |  |  |  |
|             | Expression in terms of matrices.  |                         |  |  |  |  |
|             |   | 1                       |  |  |  |  |
|             | [V.] n, y, n, y, n, y, n, y,  | 000                     |  |  |  |  |
|             | V <sub>L</sub>  | ao i                    |  |  |  |  |
|             | 1 2   |                         |  |  |  |  |
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|             | V1 0 0 0 1 May  |                         |  |  |  |  |
|             | 29 49 ng 49 ng 49 ng 49   | Lazz_                   |  |  |  |  |
|             |   | ~                       |  |  |  |  |
|             | ×   | A                       |  |  |  |  |
| Exbr        | rsion for Coefficients.   |                         |  |  |  |  |
|             | rsion for Coefficients.  V = XA => A = X-1  |                         |  |  |  |  |
|             | V- M-N  |                         |  |  |  |  |



|              |                      |          |                |           |          | D       | ate:              |                                       |  |  |
|--------------|----------------------|----------|----------------|-----------|----------|---------|-------------------|---------------------------------------|--|--|
|              |                      |          |                |           |          | Pa      | ige No .          |                                       |  |  |
|              |                      |          | 9,1            |           | S. S. C. |         |                   | GA F                                  |  |  |
|              | >> A =               | -0.67    |                |           | 6.67     | - 0     | [6]               |                                       |  |  |
| r në .       | ot.                  | -0.67    |                | 67        | 05 2 5   | 0       | 10                |                                       |  |  |
|              |                      | 0.44     | £ - 0          | 244       | - 0.44   | 0.44    | 10                |                                       |  |  |
| ( = ( e )    | (21,060              | of dear  |                | 0         | ٥        | 000     | 20                |                                       |  |  |
|              | Mu                   | toplying | <del>-1+</del> |           |          | 0.      | # 1<br>           |                                       |  |  |
|              |                      | 1 0      |                | C 1 - 1   | 11       | 11:     | 9/ (0,1           | 1                                     |  |  |
| 5 /          | 1.2.1                | A = 1    | 3-35           | -00T      |          |         |                   |                                       |  |  |
|              |                      | No.      | 13-35          | Author    | 120 14   | TAN THE |                   |                                       |  |  |
|              | ·                    | \$ 100 h | 2-2            | MAN       | 1,4      | ر نی    | 104               |                                       |  |  |
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|              |                      | -146     |                | 1000      | es &     | by Oc.  |                   |                                       |  |  |
|              | So V                 |          | 2.25           | + 4 2     | . 35 -   | L 7 · 1 | +5                |                                       |  |  |
|              |                      | =        |                |           | ·2=      | 12.9    | 1 2               |                                       |  |  |
|              | (                    |          |                | 1 7       | -        |         | 1                 |                                       |  |  |
|              | V Jon []             | 1º,10°,  | N ,30 ]        | = X       | Ī        | 8 = 1   | Δ                 | 1 <del>7.11.11.11.11.11.11.11</del> . |  |  |
|              | So                   | pixel    | Mul            | u (a)     | (1,1)=   | 12      | .9                |                                       |  |  |
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| -            | -                    | AH 31    | n har -        |           |          |         |                   |                                       |  |  |
|              | . [ ]                | 0 0      |                | 3 2 6     |          |         |                   |                                       |  |  |
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|              | " ricus fire mores." |          |                |           |          |         |                   |                                       |  |  |
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| <del> </del> |                      | phy on   |                | 1.0-      | MANG     | 1       |                   |                                       |  |  |
|              | 3 2 2 2 2            |          | · ·            | 3         |          | 1       |                   |                                       |  |  |
|              |                      |          |                | . ,       | Į.       | - A     | -                 |                                       |  |  |
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|              | 11                   |          |                |           |          |         |                   |                                       |  |  |