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Course:B.Sc(H)Physics Sem-5

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Aim-To find the product of two matrices by normal method and by element-wise multiplication method

Source Code:

clc

clear

A=input("input matrix A=")

disp(A,"A=")

B=input("input matrix B=")

disp(B,"B=")

for i=1:3

for j=1:3

C(i,j)=A(i,:)\*B(:,j)

end

end

disp(C,"A\*B= (By element wise multiplication")

D= A\*B

disp(D,"A\*B= (By direct multiplication)")

Output:

input matrix A=[1 2 3; 4 5 6; 7 8 9]

A=

1. 2. 3.

4. 5. 6.

7. 8. 9.

input matrix B=[9 8 7; 6 5 4; 3 2 1]

B=

9. 8. 7.

6. 5. 4.

3. 2. 1.

A\*B= (By element wise multiplication

30. 24. 18.

84. 69. 54.

138. 114. 90.

A\*B= (By direct multiplication)

30. 24. 18.

84. 69. 54.

138. 114. 90.