IFOS-2015 -> Paper II 5)(a) store the value of (-1) in hexadecimal in a 32-bit computer. > 32 bit representation of 1 is 0000000 0000000 0000000 0000001 1's complement of 1 is, 1111111 1111111 11111110 : 2'S complement of 1 is,  $(-1) \equiv 1111111 \quad 1111111 \equiv (1-)$ Now, we represent it, in hexadecimal format. FFFFFFFFFFF 5°) (-1) = (FFFFFFF) 16 Hence (=) The value of (-1) is store in heradecimal format in a 32-bit Computer can be supresent as, FFFFFFF. 8/ca) write a BASIC program to compute the product of two matrices. > # include (stdio.h) # include (como.h) # "include < math. h) void main () int a [10] [10], b [10] [10]; C [10] [10]; int 1, j, k, m, n, o, P; Prantf ("In Enter the number of rows and alumns of checi(); · scanf ("%d%d", &m, &n); forc (i=0, i<m; i++) for (j=0; j<n; j++) scanf (""/.d", la[i][j]); Printf ("In Enter the number of rows and columns of second matrix: "); scanf ("%d%d", 20, 4p);

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for(i=0; i(0; i++)
for (320; j(P; j++)
seanf ("1/d", 4 b[i][j]);
if (n = = 0)
 forc(i=0; i/m;i++)
forc(j=0; i/h;i++)
  C[i][j] = 0;
  forc(K=0; K<n; K++)
  c[i][j]=c[i][j]+(a[i][k]*b[k][j]);
   þ
Jelse
?
  pocents ("In Matrices not Conformable force
                      multiplication");
  exit(o);
  Printf ("in The resultant matrix is: \n");
  for(1=0; i(m, i++)
   for(j=0; j(P; j++)
    prantf ("1,4d", c[i][j]);
    prantf ("1");
  getch();
```