**1)MATRIX MULTIPLICATION**

#include<stdio.h>

int main()

{

int m,n,p,q,c,d,k,sum=0;

int first[10][10],second[10][10],multiply[10][10];

printf("enter the number of rows and coloums for first matrix");

scanf("%d%d",&m,&n);

printf("enter the elements for first matrix");

for (c=0;c<m;c++)

{

for (d=0;d<n;d++)

{

scanf("%d",&first[c][d]);

}

}

printf("enter the number of rows and coloumns for second matrix");

scanf("%d%d",&p,&q);

printf ("enter the values for second matrix");

for (c=0;c<p;c++)

{

for (d=0;d<q;d++)

{

scanf("%d",&second[m][m]);

}

}

for (k=0;k<p;k++)

{

sum=sum+first[c][k]\*second[k][d];

}

multiply[c][d]=sum;

sum=0;

printf("product of matrices\n");

for (c=0;c<m;c++)

{

for (d=0;d<n;d++)

{

printf("%d",multiply[c][d]);

printf("\n");

}

}

return 0;

}

**Output:**

