# **ASSINGNMENT:7**

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# Q1To find the product tow metrices

```
#include <stdio.h>
int main() {
  int a[10][10], b[10][10], c[10][10], i, j, k, m, n, p, q;
  printf("Enter the number of rows and columns of the first
matrix: ");
  scanf("%d%d", &m, &n);
   printf("Enter the elements of the first matrix: \n");
   for (i = 0; i < m; i++)
     for (j = 0; j < n; j++)
        scanf("%d", &a[i][j]);
   printf("Enter the number of rows and columns of the second
matrix: ");
  scanf("%d%d", &p, &q);
```

```
if (n != p) {
     printf("The matrices can't be multiplied with each other.\n");
 } else {
     printf("Enter the elements of the second matrix: \n");
    for (i = 0; i < p; i++) {
       for (j = 0; j < q; j++) {
          scanf("%d", &b[i][j]);
    for (i = 0; i < m; i++) {
       for (j = 0; j < q; j++) {
          c[i][j] = 0;
          for (k = 0; k < n; k++) {
             c[i][j] += a[i][k] * b[k][j];
     printf("The resultant matrix is: \n");
     for (i = 0; i < m; i++) {
       for (j = 0; j < q; j++) {
          printf("%d ", c[i][j]);
       printf("\n");
  return 0;
```

# Output:

```
"C:\Users\hp\Documents\lab 7 q1.exe"
Enter the number of rows and columns of the first matrix: 3
Enter the elements of the first matrix:
Enter the number of rows and columns of the second matrix: 2
Enter the elements of the second matrix:
The resultant matrix is:
26 9
43 15
31 11
                           execution time : 16.746 s
Process returned 0 (0x0)
Press any key to continue.
```

# Q-2 comparing two string

```
#include<stdio.h>
#include<string.h>
int main()
{char s1[20];
char s2[20];
printf("enter the string 1");
scanf("%s",s1);
printf("enter the string 2");
scanf("%s",s2);
int n1=strlen(s1);
int n2=strlen(s2);
if(n1!=n2)
{printf("strings are not equal");}
else
{ int c=0;
for(int i=0;i<n1;i++)
```

```
if(s1[i]!=s2[i]){
printf("strings are not equal");
c=1;
break;
if(c==0)
printf("strings are equal");
return 0;
```

#### Outpute:

```
"C:\Users\hp\Documents\lab 7q2.exe"
enter the string 1hello
enter the string 2hello
strings are equal
Process returned 0 (0x0) execution time : 12.720 s
Press any key to continue.
```