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--------------------------------------------------------------------------
Assignment Name: Demonstration of Matrix
--------------------------------------------------------------------------
#include<iostream.h>
#include<conio.h>

class matrix
{
      int a[5][5],b[5][5],c[5][5],d[5][5],e[5][5],f[5][5];
      int p,q,i,j,k,n,m;

      public:
            void get();
            void add();
            void sub();


};

void matrix::get()
{
      cout<<"\nEnter Number of Row & Column :\t";
      cin>>n>>m;

      cout<<"\nEnter the first Matrix:\n";

      for(i=0;i<n;i++)
      {
            for(j=0;j<m;j++)
            cin>>a[i][j];
      }
      cout<<"\nEnter Number of Row & Column :\t";
      cin>>p>>q;

      cout<<"\nEnter the first Matrix:\n";

      for(i=0;i<p;i++)
      {
            for(j=0;j<q;j++)
            cin>>b[i][j];
      }
}

void matrix::add()
{
      for(i=0;i<n;i++)
      {
            for(j=0;j<m;j++)
            {
                  c[i][j]=a[i][j]+b[i][j];
            }
      }
```

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      cout<<"\nThe addition of two matrix is :\n";
      for(i=0;i<n;i++)
      {
            for(j=0;j<m;j++)
                  cout<<c[i][j]<<"\t";
                  cout<<"\n";
            }
}

void matrix::sub()
{
            for(i=0;i<n;i++)
            {
                  for(j=0;j<m;j++)
                  {
                  d[i][j]=a[i][j]-b[i][j];
                  }

            }
      cout<<"\nThe Substraction of two matrix is :\n";
      for(i=0;i<n;i++)
      {
            for(j=0;j<m;j++)
                  cout<<d[i][j]<<"\t";
                  cout<<"\n";

      }
}


void main()
{
      clrscr();
      matrix m;
      m.get();
      m.add();
      m.sub();
      getch();
}

*/ Output */

Enter Number of Row & Column :  3 3

Enter the first Matrix:
1 2 3
4 5 6
7 8 9

Enter Number of Row & Column :  3 3

Enter the first Matrix:
```

```
1 2 3
4 5 6
7 8 9

The addition of two matrix is :
2       4       6
8       10      12
14      16      18

The Substraction of two matrix is :
0       0       0
0       0       0
0       0       0
```