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USN - 1 BM19 IS 198
Write a program to find the addition of matrix using friend
function and with member function to read and display the
matrix.
  #includexiostream>.
   using namespace std;
   class Matrix
        int matrix [100][too];
        Int rowsize, colsize;
        public:
              void enter Datal.
              void display Data ();
              friend Matrix operator+ (Matrix, Matrix);
     void Matrix !: enterData()
         int 9, 9;
          cout << "Enter the number of rows " << end );
          Cin >> rowSize;
          cout << "Enter the number of columns " << endl;
          cin>> colsize;
           cout < "Enterdata for now and columns " end!;
            for ( =0; ix rowSize; i++)
                 for (3=0; 3 < colsize; j++)
                      Ein>> matrix [i][];
```

```
void Matrix:: display Data ()
     out 9, 9;
      for (i=0; i < rowsize; i++)
           coutex " " ex end;
            for(j=0; j < colsize; j++)
                  cout << " << matrix[i][j];
3.
 Matrix operator + (Matrix m1, Matrix m2)
      Matrix m3;
      coul << "Sum of two matrix is: In" << endl;
       for (int i=0.0; i < m1. rowsSize; i++)
            cout << " " << endl;
            for Cint j=0; j < m1.col Size; j++)
                m3. matrix [i] [j] = m1. matrix [i][j] + m2. matrix [i][j];
                cout << " " << m3.matrix[:][];
        return m3;
```

int main ()

{

Matrix first Matrix, second Matrix;

first Matrix. enter Data ();

first Matrix. display Data ();

second Matrix. enter Data ();

second Matrix. display Data ();

first Matrix + second Matrix;

return 0;

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