Compile Result

```
Enter the order of the matix
2 2
Enter the co-efficients of the matri
x
1 2
3 4
The given matrix is
 1 2
 3 4

The sum of principal diagonal elemen
ts is = 5
The sum of  secondary diagonal eleme
nts is   = 5

[Process completed (code 49) - press
 Enter]
```

Algorithm

Step1: Start

Step2: Declare Int array[10][10], Int i, j, m, n, a=0, sum=0;

step 3: Read the order of the Matrix

step4: If(m==n)

4.1 Print the co-efficients of matrix (Read)

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

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

{ scanf("%d", &array[i][j])

Step 5: Print the Matrix

5.1 for(i=0; i<m; i++)

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

{ printf("%d", &array[i][j])

} printf("\n")

Step6: Cordition for Sum

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

{ sum t= array[i][j]

a+= array[i][m-i-1];

}

Step 7: Print the Result

Step8; Else:

8.1 The order of Matrix is not Square

Step 9: Stop