Practical 16:

/\* Program to display primary and secondary diagonal of nxn matrix\*/

#include<iostream.h>

void displaydiagonal(int A[][],int N);

void displaydiagonal(int A[20][20],int N)

{

int i=0;

cout<<"The primary diagnol of entered matrix is :\n";

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

cout<<A[i][i]<<"\t";

cout<<"\nThe secondary diagonal of entered materix is:\n";

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

cout<<A[i][(N-1)-i]<<"\t";

}

void main()

{

int A[20][20],rc,i,j;

cout<<"Enter number of rows and columns :";

cin>>rc;

cout<<"\nEnter array:\n";

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

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

cin>>A[i][j];

displaydiagonal(A,rc);

}

Output:

