Aim: To write a program to perform certain action on an Matrice according to the given command

Source Code:

```
#include<iostream.h>
#include<conio.h>
#includeocess.h>
void main()
     int A[10][10],m,n,i,j,ans,B[10][10];
     clrscr();
     int ch:
     cout<<"========n";
                               Harshit Program
     cout<<"----\n";
     cout<<"1.Upper and Lower triangle\n";</pre>
     cout<<"2.Transpose\n";</pre>
     cout<<"Enter a choice ";</pre>
     cin>>ans;
     if(ans==1)
          cout<<"Enter the number of rows and Columns";</pre>
          cin>>m>>n:
          if(m!=n)
               cout<<"Triangle not possible";</pre>
          cout<<"Enter Element of Matrices";</pre>
          for(i=0;i<m;i++)
               for(j=0;j<n;j++)
                    cin>>A[i][j];
          cout<<"Upper triangle\n ";</pre>
          for(i=0;i<m;i++)
               for (j=0; j<n; j++)
                    if(i<=j)
                        cout<<A[i][j]<<" ";
               cout<<"\n";
          cout<<"lower triangle\n ";</pre>
          for(i=0;i<m;i++)</pre>
               for (j=0; j<n; j++)
                    if(i>=j)
                         cout<<A[i][j]<<" ";
               }
```

```
cout<<"\n";
      if(ans==2)
           cout<<"Enter Rows and Columns ";</pre>
           cin>>m>>n;
           cout<<"Enter element of Matrices-1\n";</pre>
           for(i=0;i<m;i++)
                 for(j=0;j<n;j++)
                       cin>>A[i][j];
           cout<<"Displaying Matrice-2\n";</pre>
           for(i=0;i<m;i++)
                  for(j=0;j<n;j++)
                       cout<<A[i][j]<<" ";
                       cout<<"\n";
           cout<<"Transposed Matrice-2\n";</pre>
           for(i=0;i<m;i++)
                  for(j=0;j<n;j++)
                       B[i][j]=A[j][i];
                 cout<<"\n";
           cout<<"Displaying Transposed Matrice-2\n";</pre>
           for(i=0;i<m;i++)
                  for(j=0;j<n;j++)
                       cout<<B[i][j]<<" ";
                   cout<<"\n";
     getch();
}
```

Output:



