```
#include<iostream>
using namespace std;
int main()
int r,c,i,j,ch;
int mul[10][10];
cout<<"\nEnter no.of rows: ";
cin>>r;
cout<<"Enter no. of columns: ";
cin>>c;
int a[10][10],b[10][10],d[10][10];
cout<<endl<<"Enter elements of first matrix: ";
//Accepting and displaying 2 matrices
for(i=0;i< r;i++)
{
for(j=0;j< c;j++)
cin>>a[i][j];
}
cout<<endl<<"Enter elements of second matrix: ";
for(i=0;i< r;i++)
for(j=0;j< c;j++)
cin>>b[i][j];
cout<<"Your 1st entered Matrix is: "<<endl;
for(i=0;i< r;i++)
for(j=0;j< c;j++)
cout<<a[i][j]<<" ";
cout<<endl;
cout<<"Your 2nd entered Matrix is: "<<endl;
for(i=0;i< r;i++)
for(j=0;j<c;j++)
cout<<b[i][j]<<" ";
```

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cout<<endl;
}
int flag=0;
while(flag==0)
cout<<"\t1. Addition of Matrix"<<endl;
cout<<"\t2. Transpose of Matrix A"<<endl;
cout<<"\t3. Exit"<<endl;
cout<<"Enter your choice: "<<endl;</pre>
cin>>ch;
switch(ch)
{
case 1:
//Addition of matrix
for(i=0;i< r;i++)
for(j=0;j< c;j++)
d[i][j]=a[i][j]+b[i][j];\\
}
//display of addition
cout<<"Addition of entered 2 matrices is: "<<endl;
for(i=0;i< r;i++)
for(j=0;j< c;j++)
cout {<\!} d[i][j] {<\!} "";
cout<<endl;
break;
case 2:
//Transpose of matrix
for(i=0;i< r;i++)
for(j=0;j< c;j++)
d[i][j]=a[j][i];
```

```
//display A transpose
cout<<"Transpose of 1st matrix is: "<<endl;
for(i=0;i<r;i++)
for(j=0;j< c;j++)
cout<<d[i][j]<<" ";
cout<<endl;
}
break;
case 3:
flag=1;
break;
default:
cout<<"Invalid Input";
}
}
return 0;
}
```