m=int(input("enter the number of rows"))

n=int(input("enter the nmber of columns"))

A=[]

for i in range(m):

sublist=[]

for j in range(n):

sublist.append(int(input(f"enter the element of row {i} and column {j} ")))

A.append(sublist)

print(A)

B=[]

for i in range(m):

sublist=[]

for j in range(n):

sublist.append(int(input(f"enter the element of {i} row and {j} column")))

B.append(sublist)

print(B)

Add=[]

for i in range(m):

sublist=[]

for j in range(n):

b=A[i][j]+B[i][j]

sublist.append(b)

Add.append(sublist)

print("Addition of two matrix is :",Add)

Sub=[]

for i in range(m):

sublist=[]

for j in range(n):

a=A[i][j]-B[i][j]

sublist.append(a)

Sub.append(sublist)

print("substraction of two matrix is:",Sub)

Mul=[]

for i in range(m):

sublist=[]

for j in range(n):

c=0

for k in range(m):

c=c+A[i][k]\*B[k][j]

sublist.append(c)

Mul.append(sublist)

print("multiplication of two matrix is:",Mul)

R=[]

trans=[]

2

for i in range(m):

sublist=[]

for j in range(n):

R=A

J=R[j][i]

sublist.append(J)

trans.append(sublist)

print("transpose of matrix is",trans)