row1 = int(input("Enter the number of rows:"))

col1 = int(input("Enter the number of columns:"))

c = 0

matrixa = []

matrixb = []

resultmatrix = []

print("Enter the entries rowwise:")

# For user input

print("Enter the entries for matrix A:\n")

for i in range(row1):

a = []

for j in range(col1):

a.append(int(input()))

matrixa.append(a)

print(matrixa)

print("matrix is:")

for i in range(row1):

for j in range(col1):

print(format(matrixa[i][j],"<3"), end=" ")

print()

print("Enter entries for matrix B:\n")

row2 = int(input("Enter the number of rows:"))

col2 = int(input("Enter the number of columns:"))

for i in range(row2):

a = []

for j in range(col2):

a.append(int(input()))

matrixb.append(a)

print("matrix is:")

for i in range(row2):

for j in range(col2):

print(format(matrixb[i][j],"<3"), end=" ")

print()

for i in range(row1):

a = []

for j in range(col2):

for k in range(row2):

c = c + matrixa[i][k] \* matrixb[k][j]

a.append(c)

c = 0

resultmatrix.append(a)

print("Result matrix for Multiplication is:")

for i in range(row1):

for j in range(col2):

print(format(resultmatrix[i][j],"<3"), end=" ")

print()