14.08.24 HOME TASK

QUESTION 1

```
row,col=map(int,input("Enter the number of rows : ").split())
matrix1=[]
matrix2=[]
for i in range(row):
    l=list(map(int,input().split()))
    matrix1.append(l)
for j in range(row):
    L=list(map(int,input().split()))
    matrix2.append(L)
final=[]
for i in range(row):
    result=[]
    for j in range(col):
        result.append(matrix1[i][j]+matrix2[i][j])
    final.append(result)
for k in final:
    print(' '.join(map(str,k)))
```

QUESTION 2

```
num = int(input("Enter the dimension of the matrix (N x N): "))
matrix = []
for i in range(num):
    L = list(map(int, input().split()))
    matrix.append(L)
for i in range(num):
    for j in range(i, num):
        matrix[i][j], matrix[j][i] = matrix[j][i], matrix[i][j]
for i in range(num):
    matrix[i] = matrix[i][::-1]
print("Rotated matrix by 90 degrees clockwise:")
for r in matrix:
    print(" ".join(map(str, r)))
```

QUESTION 3

```
row,col=map(int,input("Enter the numbrs of rows and columns to be entered : ").split())
matrix=[]
for i in range(row):
    L=list(map(int,input().split()))
    matrix.append(L)
max_value = matrix[0][0]
for i in range(row):
    for j in range(col):
        if matrix[i][j] > max_value:
            max_value = matrix[i][j]
print("Maximum element =", max_value)
```

QUESTION 4

```
num=int(input("Enter the number : "))
matrix=[]
for i in range(num):
    L=list(map(int,input().split()))
    matrix.append(L)
flag=True
for i in range(num):
    for j in range(num):
        if matrix[i][j]!=matrix[j][i]:
            flag=False
            break
    if not flag:
        break
if flag:
    print("Symmetric matrix")
else:
    print("Not a symmetric matric")
```