## **Week 4 Programming Assignment**

## Question 1

```
r = int(input())
c = int(input())
mat = []
# Take matrix input
for i in range(r):
  temp = input()
  l = temp.split()
  row = []
  for j in 1:
      row.append(eval(j))
  mat.append(row)
ans = 0
col = 0
for i in range(r):
    mini = min(mat[i])
    r_idx_mini = mat[i].index(mini)
    temp\_col = []
    for j in range(c):
        temp_col.append(mat[i][r_idx_mini])
    maxi = max(temp_col)
    if(mini == maxi):
        ans = 1
print(ans)
Ouestion 2:
r = int(input())
c = int(input())
mat = []
# Take matrix input
for i in range(r):
  temp = input()
  1 = temp.split()
  row = []
  for j in 1:
      row.append(eval(j))
  mat.append(row)
s = int(input())
# Print Matrix
for j in range(c):
    for i in range(r):
        if i < r-1:
            print(s*mat[i][j], end=" ")
```

```
else:
              print(s*mat[i][j], end="")
    print()
Question 3:
n = int(input())
mat = []
# Take matrix input
for i in range(n):
  temp = input()
  1 = temp.split()
  row = []
  for j in 1:
       row.append(eval(j))
  mat.append(row)
def skew_sym(mat, n):
    flag = 1
for i in range(n):
         for j in range(n):
    if i != j and mat[i][j] != (mat[j][i]*(-1)):
        flag = 0
                  return flag
    return flag
print(skew_sym(mat,n))
```