l=[1,2,3]

print("all possible compinations")

for i in l:

for j in l:

print(f"({i},{j})")

OUTPUT

all possible compinations

(1,1)

(1,2)

(1,3)

(2,1)

(2,2)

(2,3)

(3,1)

(3,2)

(3,3)