Q1)  
from random import randint

char = 'A'

components=[]

class Agent():

instance\_list = []

patching\_list = []

def \_\_init\_\_(self,name):

num = randint(0,1)

if(num==0):

self.state="Secure"

else:

self.state="Vulnerable"

self.name=name

Agent.instance\_list.append(self)

def system\_scan():

for i in Agent.instance\_list:

if(self.state="Vulnerable"):

Agent.

for i in range(0,9):

Agent(chr(ord('A')+i))

[print(i.name,i.state) for i in Agent.instance\_list]