PYTHON TASK – 3

SAMPLE WATER :

Water\_sample = [1,80,628,2,72,92,3]

length=len(Water\_sample)

#print(length)

salt = hydrogen = oxygen = 0

#loop1 = loop2 = loop3 = 0

for loop in range(length):

if(Water\_sample[loop]>=0 and Water\_sample[loop]<=9):

salt = salt + Water\_sample[loop]

if(Water\_sample[loop]>=10 and Water\_sample[loop]<=99):

hydrogen = hydrogen + Water\_sample[loop]

if(Water\_sample[loop]>=100 and Water\_sample[loop]<=999):

oxygen = oxygen + Water\_sample[loop]

total = salt + hydrogen + oxygen

salt\_percent = (salt/total)\*100

print(salt\_percent)

hydro\_percent = (hydrogen/total) \* 100

oxygen\_percent = (oxygen/total) \* 100

if(salt\_percent == 0.0 and hydro\_percent == 70.0 and oxygen\_percent == 30.0):

print("The water sample is PURE")

else:

print("The water sample is IMPURE")