**In class Exercise: Algorithm Analysis**

Q-1: Given the following code fragment, what is its Big-O running time?

test = 0

for i in range(n):

for j in range(n):

test= test + i \*j

C (n^2 C) = O(n^2)

Q-2: Given3 the following code fragment what is its Big-O running time?

for i in range(n):

test=test+1

for j in range(n):

test= test – 2

O(n)

Q-3: Given the following code fragment what is its Big-O running time?

i = n

while i > 0:

k=2+2

i = i // 2

O(log(n))